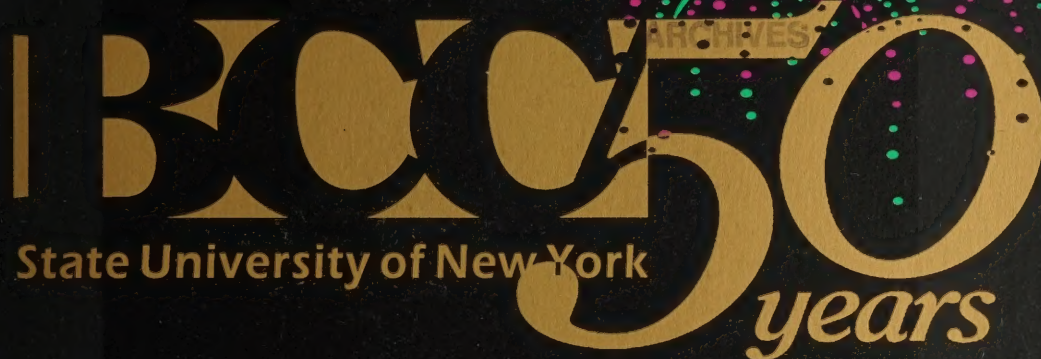


Broome  
Community  
College



General Catalog 1996-97



## ACCREDITATION

Broome Community College is a member of the Middle States Association of Colleges and Schools.

The College is supervised by the State University of New York and its curriculums are registered by the State Education Department.

The Chemical, Civil, Electrical and Mechanical Engineering Technology programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (TAC/ABET).

The Dental Hygiene Program is accredited by the Commission on Dental Accreditation and by the United States Department of Education, and the Nursing Curriculum is accredited by the National League for Nursing.

The Health Information Technology Program is accredited by the Council on Accreditation of the American Health Information Management Association in collaboration with the Commission on the Accreditation of Allied Health Education Programs.

The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology. The Medical Assistant Program is accredited by the Commission on the Accreditation of Allied Health Education Programs. The Medical Assistant Program is also accredited by the American Association of Medical Assistants.

The Physical Therapist Assistant Program is accredited by the Commission on Accreditation in Physical Therapy Education.

The Medical Laboratory Technology curriculum is approved by the National Accrediting Agency for Clinical Laboratory Science (NAACLS). The Dietary Program is approved by the Dietary Managers Association.

## NON-DISCRIMINATION COMMITMENT

Broome Community College does not discriminate on the basis of race, sex, color, creed, age, national origin, disability, marital status, sexual orientation, or status as a disabled veteran or veteran of the Vietnam era in the recruitment of students; the recruitment and employment of faculty and staff; or the operation of any of its programs and activities. Where relevant, state and federal laws apply.

The designated coordinator for compliance with Title VI and VII of the Civil Rights Act of 1964, as amended, Title IX of Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, as amended, and Section 402 of the Vietnam Era Veterans' Readjustments Assistance Act of 1974, as amended, is the Affirmative Action/Equal Opportunity Officer.

For further information or questions, contact this individual weekdays, during regular College hours.

## PARTNERS IN PROGRESS



Broome  
Community College



State University  
of New York (SUNY)



Broome County  
(College Sponsor)

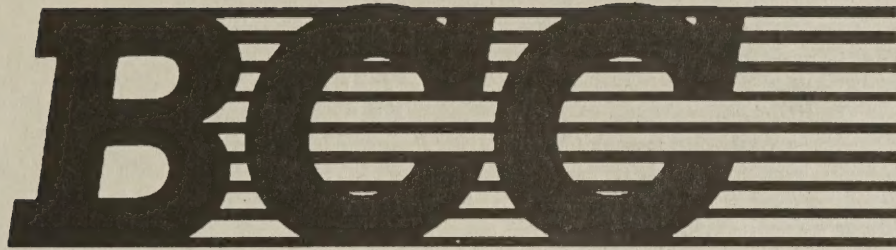
The College reserves the right at any time to make changes deemed advisable or necessary. The College, moreover, shall not be responsible for any typographical errors contained in this catalog.

For information about the College, its program, and its admissions procedure contact:

Office of Admissions  
Broome Community College  
P.O. Box 1017  
Binghamton, New York 13902  
Phone (607) 778-5001

Hearing impaired persons should phone:  
(607) 778-5150 (Voice-TDD/TTY).





**Broome Community College**  
*State University of New York*

# **BROOME COMMUNITY COLLEGE**

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## **1996 - 97 CATALOG**

**A comprehensive Community College Supervised by  
SUNY (State University of New York)  
and Sponsored by the  
County of Broome**

**BROOME COMMUNITY COLLEGE, P.O. BOX 1017, BINGHAMTON, N.Y. 13902  
PHONE (607) 778-5000  
(607) 778-5150 TTY/TDD**



# HOW TO USE THIS CATALOG



To help readers find their way through the pages of this catalog, a few words of explanation may be helpful. The catalog is assembled in four parts as follows:

**PART 1**, which consists of pages 7 to 36, contains the policies, procedures and regulations of the College. And, as the accompanying table of contents shows, these are divided into such areas as admissions, expenses, financial aid, academic policies and student services.

**PART 2**, from pages 37 to 82, is a complete display of the College's various curricula, arranged in alphabetical order within Academic Division. It shows the courses taken by students in each semester, along with the number of class hours, laboratory hours and credits for each.

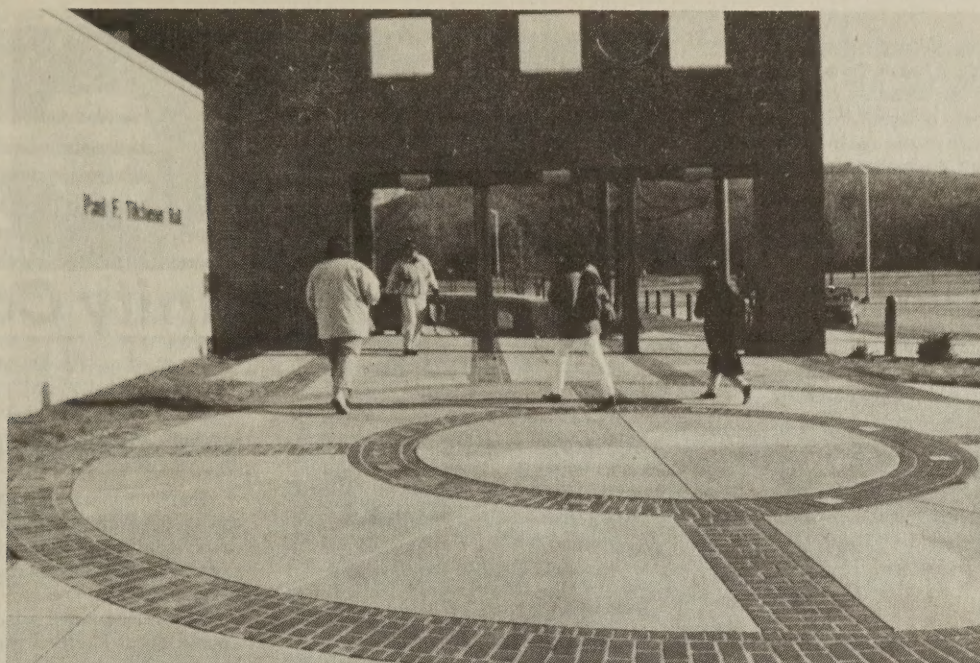
**PART 3**, from pages 83 to 120, contains descriptions of the College's courses. These are arranged in alphabetical order, according to curriculum codes. Readers should check the listing on

page 84 for the subject area's corresponding code, in order to find the description easily.

**PART 4**, from pages 121 to 131, is a directory of the administration and faculty of the College. There is also information about the State University of New York, of which the College is a part. The Index is located on pages 132 to 134, indicating the topics covered in this catalog. The Academic Calendar is on page 135.



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# ABOUT BROOME

Broome Community College is a comprehensive community college. It has programs designed to prepare graduates for immediate employment and for transfer to four-year colleges and universities.

Recent enrollments have averaged nearly 6,000 students, almost evenly divided into full-time and part-time students.

The College is publically supported and is attended largely by students from Broome and surrounding counties.

The students are enrolled in four general areas of study: Liberal Arts and Related Careers; Business and Office Technologies; Health Sciences; and, Technology, Engineering and Computing.

The College is sponsored by Broome County, supervised by the State University of New York, and accredited by both professional and educational organizations (see inside front cover). Its programs, moreover, are registered with the State Education Department.

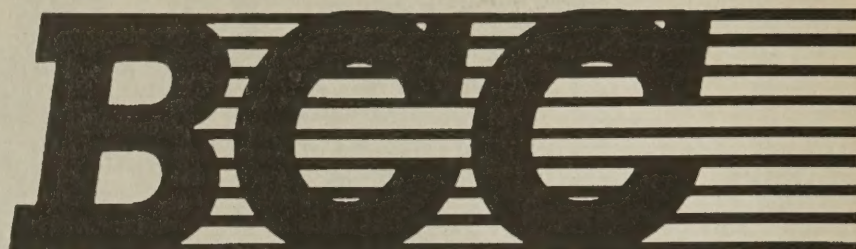
## HISTORY OF THE COLLEGE

Broome Community College graduated its first class in 1949. These students had entered what was then known as the New York State Institute of Applied Arts and Sciences at Binghamton in the fall of 1947. The original institute was one of five founded in the state in 1946, following the pattern of six agricultural and technical institutes which New York had established earlier in the century. The first programs offered were all occupational in nature and included Chemical, Electrical and Mechanical Technology, as well as Medical and Technical Office Assistant curriculums.

In 1953 New York relinquished operating control of the school to a new sponsor, the County of Broome, under provisions of the State Community College Law, and the name was changed to Broome County Technical Institute. In 1956 the name was again changed to Broome Technical Community College, to reflect the increasingly comprehensive nature of the educational offerings. In 1971 the name became Broome Community College as the scope of curriculums continued to expand.

In the late 1950's, Civil Technology and Dental Hygiene programs were added to the five original curricula. The Business programs were expanded to include offerings in Accounting, Marketing, and Engineering Secretarial in the early 1960's.

An important change in the College's program began in the late 1950's as a result of a new emphasis on university-parallel or transfer programs to compliment the College's occupational offerings. Engineering Science, the first two years of an engineering program, was introduced in 1958, Liberal Arts and Sciences (now Liberal Arts and Related Careers) in 1962; and Business Administration in 1963.



**Broome Community College**  
*State University of New York*

In the late 60's interest began to develop in the health science field. As a result, the College introduced a degree-granting program in Radiologic (X-Ray) Technology in 1965, added Medical Laboratory Technology in 1966, Nursing a year later and Medical Record Technology in 1969. The Physical Therapist Assistant program is the newest of the Health Science programs as BCC continues to respond to the needs of the community.

Criminal Justice and Early Childhood have also been added, and degree programs in Individual Studies have been introduced, along with Office Services Assistant. Additional new offerings have more recently been added in Computer Studies and Travel and Hotel/Restaurant Management.

For its first five years, the school was housed in a refurbished State Guard Armory in downtown Binghamton. This building was located across from the Forum and was gutted by fire in September 1951. For the next five years, Kalurah Temple (now the First Assembly of God building on Washington Street) and two other buildings in the city provided temporary quarters. In 1957 the College moved to its present campus just north of Binghamton. The first addition to the original campus came with the construction of Titchener Hall which was dedicated in 1963. The Library Building was completed five years later, and the Business Building opened in 1972.

A new Applied Technology Building was completed and opened for classes at the beginning of the 1987 Spring semester, the Science Building has been enlarged, and expansion of the Student Center was completed in 1988.

Recent campus construction includes a new Campus Services Building and a complete renovation of Titchener Hall.

## THE COMMUNITY

The community is an industrial and agricultural area in New York State's southern tier. It is in the approximate center of the state, measuring from east to west, and its southern extremity touches the Pennsylvania state line.

Binghamton is the principal city in Broome County, but it is only a part of the community known as the Triple Cities. Endicott and Johnson City, along with Vestal and other suburbs, help to make the community much larger in population and geography than the city of Binghamton.

Binghamton has a population of about 52,000 and Broome County's population exceeds 200,000. Diversified industry in the community includes such firms as Universal Instruments, IBM, Martin Marietta, Amitec, and NY State Electric and Gas.

The College has become an integral part of the community since it was started in 1946. Many of the campus facilities are offered at nominal cost for use by responsible, non profit organizations, and most of the College's curriculums are designed to help fill the economic needs of the county.

## THE CAMPUS

The College campus is located three miles north of Binghamton on Upper Front Street, which is Route 11 running alongside of Interstate 81. Eight of the 14 buildings form two contiguous quadrangles to make a compact campus layout.

Most of the original buildings are two stories high, of modern functional design, and made of brick with colored panelwall facing. They lie in a suburban setting in the virtual center of the College's 220 acres of land.

In addition to classrooms and laboratories, the campus has its own cafeteria, two gymnasiums, athletic fields and theater. These facilities add up to make the campus a multi-million dollar investment in the people of Broome and surrounding counties.



# COMMUNITY COLLEGE

## COLLEGE MISSION AND GOALS STATEMENTS

Broome Community College is a public, comprehensive, educational institution providing: (1) arts and sciences transfer degrees, (2) occupational degrees and certificate programs in health, business and technology, (3) developmental learning program, (4) student and administrative services, (5) continuing and community education programs.

As an open enrollment institution, Broome Community College provides quality, low cost, geographically convenient programs to varied student populations.

### TRUSTEE GOALS

#### Goal Statement I: ACCESS

Broome Community College is a full opportunity college providing opportunities to all students who are seeking access to the College program.

#### Goal Statement II: DIVERSITY

Broome Community College provides a diverse academic and student development program, supported by appropriate educational and administrative services.

#### Goal Statement III: QUALITY

Broome Community College provides quality programs, and utilizes internal and external evaluation processes to preserve and improve program excellence.

#### Goal Statement IV: COMMUNITY

Broome Community College supports efforts designed to improve economic development and quality of life in the region. The College has a commitment to provide businesses, industries, agencies and other community members with educational courses, training programs and other services as needed.

#### Goal Statement V: RESOURCES

Broome Community College seeks and acquires the necessary levels of physical, fiscal and human resources requisite to preserve and improve program quality.

#### Goal Statement VI: GOVERNANCE

Broome Community College leadership collaborates with the numerous internal and external governance bodies to foster and sustain collegial rapport to ensure responsible decisions and actions.

Revised/Endorsed BCC Board of Trustees  
12-19-85

### AUTHORIZATION

Broome County is the sponsor of Broome Community College, which was established in 1946 and is one of the oldest community colleges in the State University of New York (SUNY) system. The College is governed by a Board of Trustees and funded by annual appropriations (operational and capital) from state and county funds. Students pay up to one-third of the College's operating costs through tuition. Five of the trustees are appointed by the County Executive, with approval of the County Legislature, four by the Governor and one is elected by the student body from among their peers. County and trustee governance policy and practice are based on a mutually determined modified "Plan C" resolution of County Government.

The College President is appointed by the College Board of Trustees, with approval of the Chancellor of the State University of New York and



the SUNY Board of Trustees. His/Her direct supervisor is the chairman of the College Board of Trustees. The SUNY Chancellor provides an umbrella type of leadership to the president through a deputy for community colleges to ensure that appropriate SUNY policies and regulations and State Education Department (SED) guidelines for post-secondary institutions are followed.

Degree-granting authority for Broome Community College is given by the Board of Regents of the University of the State of New York, and the College's academic program is accredited by the Middle States Association of Colleges and Schools.

### DEFINITION

Since the date of charter in 1946, as the New York State Institute of Applied Arts and Sciences at Binghamton, the College has moved from a limited access technical institute to a comprehensive community college with a Full Opportunity enrollment policy. Broome Community College is organized into three primary divisions: academic, administrative, and student and community affairs, each of which is administered by a Vice President reporting to the College President.

The Board of Trustees establishes College policy, and the Administration interprets and implements it, working in conjunction with the Sponsor, State University of New York (SUNY), the State Education Department (SED), and the various accrediting bodies that evaluate and make recommendations on the objectives and outcomes of the College program.

Broome Community College emphasizes classroom and applied laboratory educational activities

rather than being a research institution. By developing a quality program and excellence in teaching, the College provides diversified educational opportunities to individuals of varied ages. A particularly attractive feature of the College is that it draws most students from the geographic region known as Broome County. It provides an important link with the communities of Broome County and the surrounding regions in the southern tier of New York State, making social, economic and cultural contributions to recipients of these services.

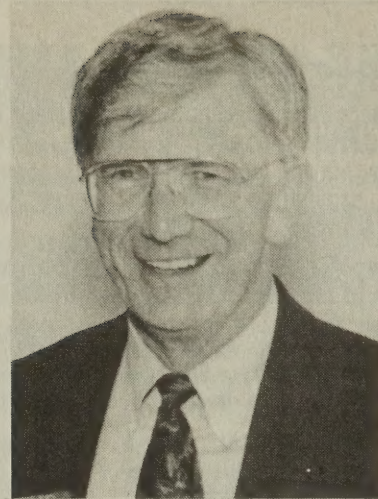
The College provides students with a broad spectrum of both humanistic and scientific/technological related competencies through its 32 degree-granting programs and its 10 certificate programs. These programs encompass six major areas, including Engineering and Engineering Technology, Business and Office Technology, Health Sciences, Liberal Arts and Related Careers, Computer Studies, and other occupational programs. We successfully place approximately 90% of our graduates in employment or continued study. The College is approved by the New York State Board of Regents to offer Associate in Arts (AA), Associate in Science (AS), Associate in Applied Science (AAS), and Associate in Occupational Studies (AOS) degrees.

Enrollment includes both full- and part-time students attending day and/or evening classes. Classes run from 8 a.m. to 10 p.m. weekdays, and there are a number of weekend classes.



**From the desk of  
Donald A. Dellow  
BCC President**

---



Broome Community College offers a quality educational experience providing you the opportunity to fulfill your goals and to reach your full potential. We have been doing this successfully for 50 years. Graduates from our institution have successfully proven their abilities in some of the finest universities and colleges in our country. Successful graduates have gone on to hold important positions in major corporations throughout the country. We at BCC are very proud of our alumni and their accomplishments.

A major reason for our success in providing this quality education over the years has been an expert and highly dedicated faculty. A commitment to small class size, individualized attention, and special needs assistance guarantees students the help they need in the classroom.

We feel that our students must have access to new technologies if they are to compete successfully in our global economy. With that belief, BCC can boast of having made a continuing major investment in modern technology and equipment.

BCC is also proud of its tradition of offering a variety of social, recreational and fine arts activities. We encourage our students to participate in student government, clubs and other activities and to enjoy the opportunity for a well-rounded education.

As you review the catalog, I think you will find that the programs of study we offer will allow for transfer to the university or college of your choice or for immediate entry into the work force. I urge you to contact our admissions office or the dean of any particular division to obtain more specific information about the programs in which you have an interest.

We at BCC are proud of our tradition and feel that we can offer you a quality education at a reasonable cost. Come take a look at us.

Sincerely,

A handwritten signature in cursive script that reads "Donald A. Dellow".

Donald A. Dellow  
President







# ADMISSIONS

## ADMISSIONS PROCEDURES

Students are selected as they apply, complete the admissions process, and are found suitably qualified for a particular program. The following items are required by the Admissions Office before a decision can be made on a student's application.

1. Application for Admission.
2. A non-refundable \$15 application fee.
3. Official transcripts of high school and all college coursework. Applicants should arrange to have transcripts mailed directly from the high school/college attended to the Admissions Office.

Here are a few items to note concerning the application process:

1. Students who wish to enroll full or part-time in any curriculum must apply through the Admissions Office.
2. American College Testing (ACT) or Scholastic Aptitude Test (SAT) score reports are not required, but if either or both are available, they should be forwarded to the Admissions Office.
3. Recommendations from high school personnel are helpful, if available.
4. An interview with an Admissions Counselor at Broome Community College is desirable.
5. The postmark date of an application and the date an application folder is complete are important parts of the admissions process and help the College implement its first-come, first-served equal opportunity policy.
6. Most programs require that prerequisite courses be successfully completed by June 30 of the summer preceding fall enrollment.

Applicants should recognize that it is their responsibility, not a counselor's or admissions officer's, to complete the necessary forms for admission and to see that all required transcripts and/or other information are received and recognized by the Admissions Office. Completing the application process is the first step toward matriculation, which also includes being accepted into a curriculum and enrolling in coursework.

Acceptance into Broome Community College only applies to the particular semester designated in the acceptance letter. If one does not attend then and wishes to enroll in a future semester, he/she must reapply. Records are kept on file for one year, so the reapplication process usually involves filling out another application form, unless additional college coursework has been completed.

BCC Study Abroad Programs have separate admissions criteria (see page 18).

More information or answers to questions are available at the:

**Admissions Office**  
**Broome Community College**  
**P.O. Box 1017, Binghamton, N.Y. 13902**  
**Phone: (607) 778-5001**

## SPECIAL ADMISSIONS PROGRAMS

**Early Admissions** is a program for high achieving high school students who can benefit from taking college courses, full or part-time, before graduating from high school. While high school seniors are usually enrolled in this program, qualified juniors and sophomores may also be eligible.

Anyone interested in part-time Early Admissions should contact the Admissions Office or his/her high school counselor for the special application form. Full-time applicants should use the regular student application.

**Educational Opportunity Program (EOP)** The Educational Opportunity Program is designed for New York State residents who fall within specific academic and financial guidelines. EOP provides economic aid, remedial and developmental assistance, with the amount of financial aid based on need.

To be eligible for EOP, students must provide appropriate income information as verification (778-5220).

**The BCC STRIVE (Services and Training Resources for Individuals in Vocational Training) Program** is geared specifically to help low income people with dependent children who wish to return to school for vocational education.

The program helps students cope with the responsibilities of being both a parent and a student, plus helps to coordinate child care and transportation needs. Those interested in this program may contact the BCC STRIVE Program, Room 101, Wales Administration Building, telephone: 778-5350.

**International Applicants (from other nations).** Broome Community College is authorized under Federal Law to enroll non-immigrant alien students. Admissions requirements for foreign students or those whose native language is not English are on page 32.

**Non-High School Diploma** applicants may qualify for a high school equivalency diploma by successfully completing 24 credit hours of coursework at BCC or any college in a degree or certificate program. Students currently in high school or those having been out of high school less than one year, and under 19 years of age, typically cannot qualify for this program. Additional information is available at the Admissions Office.

## TRANSFER CREDIT

**Transfer Credit** for students who have taken or are taking college level coursework is subject to the approval of the chairperson of the student's academic department at BCC. Grades earned will not be entered into the cumulative grade-point average at Broome Community College. Students must in all cases submit to the College Admissions Office official transcripts of all college level work taken and/or being taken at another college before formal acceptance will be granted.

**BCC Residency Requirements.** Students transferring courses to BCC will be required to complete the equivalent of a semester's course of study in residence at BCC for graduation. The determination of this minimum will be the respon-

sibility of the department faculty sponsoring the curriculum, but in no case will the requirement be less than 12 semester credits. Ordinarily this means that the last 12 credits will be taken at BCC.

## MMR IMMUNIZATION REGULATIONS

It is the intent of the administration of Broome Community College to comply and enforce the provisions of Public Health Law Article 21, Title IV, Section 2165-Immunization.

All students registering for 6 or more credits and attending New York State colleges and universities are required to show proof of immunity against measles, mumps, and rubella prior to attending classes. People born before January 1, 1957, will be exempt from this requirement.

Proof of immunity to measles will mean **two doses of measles vaccine** on or after first birthday and at least 30 days apart, physician documented history of disease or serological evidence of immunity. Proof of rubella immunity will mean one dose of rubella vaccine on or after the first birthday or serologic evidence of immunity. Proof of mumps immunity will mean one dose of mumps vaccine on or after the first birthday, a physician documented history of disease or serologic evidence of immunity.

**NOTE: If you have graduated from a high school in the United States after June, 1980, your diploma or high school transcript is acceptable proof of having had one MMR. YOU MUST STILL PROVIDE PROOF OF THE SECOND MEASLES BOOSTER.**

## FULL OPPORTUNITY PROGRAM

Broome Community College has a Full Opportunity Program, which is designed to give every individual a chance to fulfill his/her own personal goals and potential.

This means that all Broome County applicants who have graduated from high school within the prior year or applicants who have been released from active duty with the Armed Forces of the United States within the prior year are given priority for admission until March 1 and are guaranteed admission to the College but not necessarily assured of space in the program of their choice. To be admitted into any program of study, all applicants must meet the academic requirements of that program. When students do not have the required academic background for a particular curriculum, they will be accepted into a program or selection of courses for which they are qualified if space is available. Some students may require more than two years to complete a program of study.

BCC offers admission to the College and opportunities in any aspect of the College's business regardless of the applicant's race, color, creed, national origin, age, sex, marital status, sexual orientation, or disability.



# ACADEMIC PREPARATION FOR ADMISSIONS TO COLLEGE CURRICULA

CURRICULUM	REQUIRED High School subjects	RECOMMENDED High School subjects
<b>Business Administration and International Emphasis*</b>	Regents Math I, II, III or or AM I, II, III, IV or equivalent	Regents Math I, II, III AM I, II, III, IV recommended for all Business Programs
<b>Management Healthcare Services Administration Emphasis Accounting Banking/Finance</b>	Regents Math I, II or AM I, II, III or equivalent	2 units science College Preparatory Courses
<b>Hotel Restaurant Management Entrepreneurship Marketing Travel &amp; Tourism</b>	Regents Math I or AM I, II or equivalent	
*The International Business and Healthcare Services Administration emphases programs are pending State Education Department Approval.		
<b>* Chemical Engineering Technology</b>	Regents Chemistry (Min. grade 74) Regents Math, I, II, III or AM I, II, III, IV or equivalent	Additional Mathematics and Science Computer Programming P.T. I, II
<b>* Civil Engineering Technology</b>	Regents Math, I, II, III or AM I, II, III, IV or equiv. Regents Physics or P.T. I and II (Min. grade 76)	Additional Mathematics Physics Keyboarding
<b>*† Computer Science</b>	Regents Math I, II, III or AM I, II, III, IV or equiv. Precalculus Math or Advanced Algebra Min. grade 74, all courses	Additional Mathematics Physics Computer Programming Keyboarding
<b>*† Computer Technology</b>	Regents Math I, II, III or AM I, II, III, IV or equiv. Regents Physics (or equiv.) Min. grade 74, all courses	Additional Mathematics Computer Programming Keyboarding
<b>*† Computer Information Systems</b>	Regents Math I, II, III or AM I, II, III, IV or equiv. Int. Alg. may replace Seq. Math III Min. grade 74, all courses	Additional Mathematics Computer Programming Keyboarding
<b>†‡ Dental Hygiene</b>	Regents Math I, or AM I, II or equivalent Biology, Chemistry Regents General 74	College preparatory courses
<b>* Electrical Engineering Technology</b>	Regents Math I, II, III or AM I, II, III, IV or equiv. (Min. grade 74) Regents Physics (Min. grade 65) or P.T. I and II (Min. grade 74)	Additional Mathematics Technical courses

## ALL GRADES ARE FINAL CLASS AVERAGES AND NOT REGENTS EXAM GRADES

\* BCC has a developmental program that enables students lacking the proper academic preparation for professional level courses to enroll in appropriate credit or non-credit courses that will qualify them. They can take these courses at BCC or elsewhere preceding their admission. The College reserves the right, however, to consider for enrollment in professional courses, only those applicants who have completed all prerequisites by June 30. Applicants who elect to take these courses during the spring and fall semesters would need more than two years to complete the curriculum.

† In these programs, Broome Community College gives priority for admissions to Broome County residents who will graduate from high school this academic year or are service veterans. Students interested in a degree in the Health Science or Computer Studies curriculums who enter the College in another program are cautioned that there is no guarantee that a petition to transfer will be approved. They should discuss the possibilities with the appropriate department chairperson.

‡ If pre-requisite courses are taken at BCC a grade of 2.0 or better is required.

\* AM is Applied Math as defined by Tech Prep.

P.T. is Principles of Technology.

CURRICULUM	REQUIRED High School subjects	RECOMMENDED High School subjects
<b>* Engineering Science</b>	Regents Math I, II, III or equivalent Advanced Algebra or Precalculus Math Regents Chemistry Regents Physics Min. grade 80, all courses	Additional Mathematics Science courses Technical courses Computer Programming
<b>†‡ Health Information Technology</b>	Regents Math I or AM I, II or equivalent Biology (Regents or equivalent)	Additional Mathematics Science, Chemistry Typewriting and/or Keyboarding
<b>Liberal Arts and Related Careers including Communication &amp; Media Arts</b>	(Students should review degree/emphasis models on pages 64-65. These might help in selecting preparatory courses.)	4 Units Mathematics (Regents I, II, III and Math 12). 3 Units Science 3 Units Foreign Language 3 Units Social Studies
<b>Criminal Justice Early Childhood Fire Protection Technology Paralegal</b>	(Students should review program requirements. These might be helpful in selecting preparatory courses.)	3 Units Mathematics 3 Units Science 3 Units Social Science
<b>* Mechanical Engineering Technology</b>	Regents Math I, II, III or AM I, II, III, IV or equiv. Regents Physics or P.T. I and II (Min. grade 74)	Additional Mathematics Technical courses Keyboarding
<b>†‡ Medical Assistant</b>	Regents Math I or AM I, II or equivalent (Min. grade 74) Biology (Regents or equivalent)	Additional Mathematics Chemistry Computers Keyboarding
<b>*†‡ Medical Laboratory Technology</b>	Regents Math I, II, III or AM I, II, III, IV or equiv. Biology (Regents or equivalent) Chemistry (Regents or equivalent)  Minimum grade 74 for Math and Chem.	Physics Additional Mathematics
<b>†‡ Nursing</b>	Regents Math I or AM I, II or equivalent Biology (Regents or equivalent) Chemistry (Regents or equivalent) Min. grade 74, above courses	College Preparatory courses
<b>Office Technologies Executive Secretarial Administrative Assistant</b>	Regents Math I or AM I, II or equivalent	Keyboarding 2 Units Science Business Communications
<b>*†‡ Physical Therapist Assistant</b>	Regents Math I, II or AM I, II, III or equivalent Biology (Regents or equivalent) Chemistry (Regents or equivalent) Min. grade 74, all courses	Physics Additional Mathematics
<b>†‡ Radiologic Technology</b>	Regents Math I, II or AM I, II, III or equivalent Biology (Regents or equiv.) Physics (Regents or equiv.) P.T. I and II Minimum grade 74 for all above courses	Additional Mathematics Chemistry
<b>Records Information Management</b>	Regents Math I, II or AM I, II, III	Keyboarding 2 Units of Science Business Communications



# EXPENSES

## TUITION

\*The BCC Board of Trustees establishes tuition and fee amounts for each semester. The amounts on pages 10 and 11 were established for the 1995-96 year only. Semesters beyond that point are subject to increase.

Tuition and fees are payable at the Student Accounts Office according to a payment schedule released by the College each semester. The responsibility for payment rests upon the student, who will be billed prior to the start of each semester. Both full-time and part-time students who have registered for courses will be "de-registered" if they fail to meet established due dates for tuition/fee payment.

Students who are administratively dropped for non-attendance during the semester continue to have a tuition and fee obligation.

### STUDENTS CARRYING 12 OR MORE CREDIT OR CREDIT-EQUIVALENT HOURS

— considered full-time students

For New York State residents

With residency

certificate ..... \$1,020\* per semester

Without residency

certificate ..... \$2,040\* per semester

For out-of-state

residents ..... \$2,040\* per semester

Students admitted to the College prior to August 1 will be requested to submit a \$50 tuition deposit. This payment will be applied toward the Fall Semester tuition bill for those students who register. Students who do not register for the Fall Semester can obtain a refund of the tuition deposit, through the end of the first week of classes, by submitting a request in writing to the College Controller. At the end of the first week of classes, the tuition deposit is non-refundable.

### STUDENTS CARRYING FEWER THAN 12 CREDIT OR CREDIT-EQUIVALENT HOURS

— considered part-time students

For New York State residents

With residency

certificate ..... \$85\* per credit

Without residency

certificate ..... \$170\* per credit

For out-of-state

residents ..... \$170\* per credit hour

**NOTE** — See "credit equivalent" on page 25 for associated changes and information.

Many students may qualify for financial aid, some of which is applicable toward tuition. See **Financial Aid** section on pages 12 through 15.

SEE TUITION REFUND POLICY ON PAGE 11.

## RESIDENCY CERTIFICATE

To qualify for the resident tuition fee, a student is required by law to present once each academic year on or before registration a residency certificate indicating that he or she has been a legal resident of the State of New York for one year and of a county for six months.

**Broome County Residents** — Full-time students admitted to the College will be mailed a copy of the application for residency certificate prior to registration. This application must be completed and presented at the time of tuition payment.

**Out-of-County Residents** — Full-time students admitted to the College will be mailed a copy of the application for residency certificate prior to registration. The application must be completed, notarized and presented to the County Treasurer of the County in which the student resides. The County Treasurer will then issue a residency certificate to the student. This residency certificate must be presented at the time of tuition payment.

**International Students** will be considered New York State residents, for tuition purposes, one year after showing intent to make New York State their permanent domicile. Example: Passport stamped, "Application for permanent residency status pending." Certain visa types preclude the ability to show such intent.

**Refugees** who come to New York State immediately after leaving their "home" country will be given New York State Residency status immediately. Refugees who first reside in another state after leaving their "home" country will be required to fulfill a one year residency term before being considered a New York State resident for tuition purposes.

**Part-Time Students** must meet the same requirements as stated above. The application for residency certificate form is available at the Student Accounts Office.

The completed residency forms are required once each academic year.

**Failure to comply with this requirement within 30 days of registration will result in assessment of non-resident tuition charges.**

## COLLEGE FEES

College fees are non-refundable.

Application Fee ..... \$15\*

Late Registration Fee ..... 10\*

(Begins on First Day of Semester)

Vehicle Registration

(Sales Tax Included) ..... 25\*

Transcript Fee ..... 5\*

Rush Transcript Fee ..... 10\*

Fax Fee ..... 5\*

Returned Check Fee ..... 20\*

Credit by Examination

Non-Laboratory Course ..... 50\*

plus \$15 per credit hour

Laboratory Course ..... 50\*

plus \$15 per credit hour

plus \$10 for each clock hour of lab

examination (maximum \$165)\*

Credit by Evaluation (Portfolio Assessment) \$75\*

plus \$15 per credit hour\*

Laboratory Fees ..... \$12 or \$18 per lab\*

(Depending on cost intensive nature of the Lab)

Health Science Clinical Makeup Fee ..... \$35\*

Computer Usage Fee ..... \$\*

Courses requiring outside services such as PED 170 Trail Riding, Music Lessons, etc. may require students to pay additional out of pocket expenses directly to those service providers.

## STUDENT FEES

### STUDENT ACTIVITY FEE

Full-Time Student ..... \$37\* per semester

Part-Time Student ..... \$2\* per credit hour

The activity fee entitles all students to admission to varsity games, convocations, dances and parties, as well as a subscription to the student newspaper and the opportunity to participate in a varied program of co-curricular activities, including intramural athletics.

The Student Activity Fee funds the following types of programs on campus: The Student Handbook and Planner, Orientation, 35 clubs and organizations, 12 athletic teams, intramural sports, travel, noontime programs, family events, films, picnics and more.

SEE REFUND POLICY ON NEXT PAGE.

### ACCIDENT INSURANCE, HEALTH SERVICE FEE

Full-Time Student Accident

Insurance ..... \$16\* per year

Health Service Fee

Full-Time Students ..... \$5\* per semester

Part-Time Students ..... \$3\* per semester

(This is a compulsory fee and covers all services provided by the Health Service Office.)

Money collected from the Health Service fee is used for physician services, drugs, supplies, educational material, diagnostic equipment, special health programs and related Health Service expenses. The fee is non-refundable if the student withdraws from the College.

The accident policy covers the student for 12 months commencing the first day of classes for expenses incurred as a result of any accident, on or off campus. Maximum coverage is \$2,000 per accident. Claim forms are available in the Health Service during the year, and must be filed with the Health and Wellness Resource Center before expenses will be paid. Part-time students may also enroll in the accident insurance program. The fees and coverage are the same. Contact the Health and Wellness Center for more information. **Students who withdraw and wish a refund of their accident policy must apply directly to the insurance company.**



## INTERNATIONAL STUDENT HEALTH INSURANCE

International students must show that they have health insurance coverage before they may enroll at the College. Health Insurance is available through the College at the following rates (which may be subject to change): Fall semester - \$220\*, Spring semester - \$176\*, and summer - \$132\*. Claim forms are available in the Health and Wellness Resource Center during the year. Students who withdraw and wish a refund of their health insurance fee must apply directly to the insurance company. Note that the "Health Insurance" mentioned in this paragraph is different from the "Health Service Fee."

## MEDICAL INSURANCE

The College does not provide medical insurance, but it is available through a number of insurance companies.

## GRADUATION FEE

Graduation ..... \$18\*  
Paid during semester preceding graduation and is refundable if the student does not graduate or earn certificate.

## ALUMNI LIFETIME

MEMBERSHIP ..... \$25  
Lifetime dues are payable during the semester that you plan to graduate and they entitle graduates to complete Association benefits.

## BOOKS, SUPPLIES, UNIFORMS AND OTHER STUDENT EXPENSES

Students are expected to purchase textbooks and related instructional materials for the courses they are enrolled in. These may be purchased at the Campus Store located in the Student Center Building. The average cost of textbooks and required supplies varies depending on curriculum and ranges between \$200 to \$700 per semester.

In the Health Science curriculums students will provide, at their own expense, their own transportation to off-campus locations for necessary clinical and other experience. Students are also required to have a physical examination which may cost as much as \$100.

In addition, some curriculums require uniforms. Among these are Hotel Technology, Nursing, Radiologic Technology, Medical Laboratory Technology, Medical Assistant and Physical Therapist Assistant. Gym clothes are necessary for physical education classes. Dental instruments and pants-type uniforms are prescribed for Dental Hygiene students.

The following estimated expenses are in addition to the usual cost of text books.

	Freshman	Senior
Civil Technology .....	\$ 60	\$90
Dental Hygiene .....	1,090	413
Electrical Technology .....	75	75
Mechanical Technology .....	90	90
Medical Assistant .....	75	30
Medical Lab Technology .....	52	0
Health Information Technology .....	105	0
Nursing .....	435	0
Office Technologies .....	30	50
Radiologic Technology .....	100	75

## REFUND POLICIES, PROCEDURES

\*The College establishes tuition and fee refund policies and procedures each year in accordance with Federally mandated regulations. The policies and procedures in this section were established for the year 1995-96. Years beyond that point are subject to changing Federal guidelines, thus future college refund policies and procedures are subject to change. The BCC Refund Regulations fact sheet for any particular year is available at Registrar, Financial Aid and Student Accounts Offices.

### TUITION REFUND POLICY\*

#### Fall and Spring Semesters

Students who officially withdraw from classes during the first four weeks of a semester will be entitled to tuition refunds on the following basis - 100% refund on or before the first day of the semester; 90% on or before day 5 of the semester; 50% on or before day 10 of the semester; and, 25% on or before day 20 of the semester.

Day of semester does not refer to specific class meetings. It refers to actual day of the campus-wide semester.

TITLE IV FINANCIAL AID RECIPIENTS PLEASE SEE TITLE IV FINANCIAL AID REFUND POLICY BELOW.

Students dropping any course less than 15 weeks in length will receive 90% refund only during the first week of the course. After that there will be no refund for partial withdrawal.

#### College-on-the Weekend

Refunded only at 90% through the Friday following the first weekend of classes (0% refund thereafter).

NOTE - Participants in the New York Civil Service Employees Association Labor Education Action Program (LEAP) will be subject to the tuition refund regulations specified in the LEAP guidelines.

#### Summer Session

Students who withdraw from Summer Session classes will be entitled to a 90% refund during the first week of the term. After that, there will be no refunds.

### FEE REFUND POLICY\*

Only the student activity fee is refundable according to the same schedule as tuition. All other fees are non-refundable except as noted under College fees.

### REFUND PROCEDURE\*

An application for refund of tuition and fees must be made in writing in the Registrar's Office (W-206). The application must be on the College form provided. The date on which the application is filed is considered the official date of the student's withdrawal and any refund to which the student may be entitled is computed using that date.

### TITLE IV FINANCIAL AID REFUND POLICY\*

Students who receive Title IV financial assistance will receive tuition and fee refunds on the basis of the pro-rata refund guidelines as mandated by the Higher Education Act Amendment of 1992 if, and only if, they officially withdraw or are administratively withdrawn from the institution. All other cases will follow the regular tuition and

fee refund policy. These refunds, by law, must be paid on a priority basis to the Title IV Programs before being paid to the student.

See BCC Refund Regulations, page 120.

## TITLE IV REFUND FEE\*

A fee in the amount equal to the lesser of 5 percent of tuition and fees or \$100 will be charged to students who receive Title IV financial assistance when a pro-rata refund is made under the provisions of the refund policy pertaining to the Higher Education Act Amendment of 1992.

## OTHER PROCEDURES\*

Students who defer tuition on Financial Aid and who then become ineligible to receive that aid or any portion of it will be subject to an immediate obligation for payment and/or collection of tuition, fees and disbursements. The College reserves the right to use whatever collection procedures it deems appropriate to satisfy any outstanding debt. The total outstanding debt may include additional costs incurred due to collection activities.

## TUITION DEPOSIT POLICY\*

Students admitted to the College prior to August 1 will be requested to submit a \$50 tuition deposit. This payment will be applied toward the Fall Semester tuition bill for those students who register. Students who do not register for the Fall Semester can obtain a refund of the tuition deposit, through the end of the first week of classes, by submitting a request in writing to the College Controller. After the end of the first week of classes, the tuition deposit is non-refundable.

**DUE TO REAUTHORIZATION OF THE HIGHER EDUCATION ACT, COLLEGE FEES AND REFUND POLICY MAY BE CHANGED DURING THE ACADEMIC YEAR.**

**FOR GENERAL INFORMATION CONCERNING CREDITS, TRANSCRIPTS AND TUITION FOR STUDY ABROAD, INTERSESSION AND SUMMER SESSION SEE PAGE 18.**



# FINANCIAL AID

Considerable financial aid is available at Broome Community College, and the College maintains a Financial Aid Office to help students. Information and applications for financial aid are sent to students who are seeking enrollment when they apply for admission. Any part-time student planning to take three credit hours or more may qualify for financial aid by formally applying and being accepted into a degree or certificate program.

Financial aid at BCC falls into three broad categories — grants that do not have to be repaid, loans on which interest rates are usually low and that have to be repaid after graduation or leaving college, or part-time employment called Work-Study. Assistance usually comes from a combination of these resources, commonly referred to as a “financial aid package.”

## STUDENT AND FAMILY RESOURCES

A student's financial need is a term used to describe the funds required by a student to pay for his/her college education in excess of the amount that he/she and parents can afford to pay. Financial need is determined by using a standardized formula, which defines the “initial” or “demonstrated” need. The formula:

Cost of attendance (including tuition, fees, books, room, board, transportation, etc.)

— Family Contribution (based on student's and parents' net assets, income, household size, number in college, etc.)

= Financial Need

The Financial Aid Office at Broome Community College operates on the premise that all parents and students have a responsibility to contribute as much as they can toward the cost of the student's education. This contribution plays the primary role in determining the actual initial need.

To qualify for financial aid, a student must be enrolled in a degree program of the College and be taking three credit hours or more, in addition to having initial or demonstrated need. This need can be met in a number of different ways—a combination of grants, loans and work-study funds in varying amounts. This combination is put together by the financial aid administrator and is called a “financial aid package.”

Many students would be unable to attend college without financial aid. However, no matter when application for financial aid is made, dispersal of awarded money is not always made on an “as needed” basis. First time students should have sufficient resources available for living and educational expenses for 12 weeks into a semester to confirm attendance as per federal regulations. Similarly, returning students should have sufficient resources through eight weeks.

## ESTIMATING EXPENSES

Below is a chart showing the estimated average costs for the 1996-97 college year for student expenses. It covers a 9-month period which is the length of the college year, September to May.

	Living w/ Parent Dependents	Not Living w/Parent No dependents
*Tuition	\$2,040	\$2,040
*Fees <sup>(1)</sup>	100	100
Parking Fee	25	25
Books	600	600
Transportation <sup>(2)</sup>	600	600
Personal Expenses	750	750
Rent	750	3,294
Food	750	1,080
Child Care <sup>(3)</sup>	NA	NA
Total	5,615	8,489
*Non-NY State Resident: <sup>(4)</sup> (Additional Tuition)	\$2,040	\$2,040
Total	\$7,655	\$10,529

\*The tuition and fees amounts had not been officially established when this catalog was being prepared. The amounts may be subject to increase.

### NOTES—

- 1) Lab fees are \$12 or \$18 per lab (not included in the above estimates).
- 2) The transportation allowance may be increased depending on where the student is residing.
- 3) A child care allowance is added to the student's budget only when documentation of these expenses is submitted to the Financial Aid Office.
- 4) An out-of-state resident must pay additional non-resident tuition.

— ALL COSTS ARE SUBJECT  
TO CHANGE —

## TUITION DEFERRAL PAYMENT

All Financial Aid funds (with the exception of work-study, Stafford and Unsubsidized Stafford loans, PLUS loans, EOP, Pauline Parker, and miscellaneous financial aid funds) will be applied to the recipient's outstanding tuition and fees for the current semester. Those applicants without finalized financial aid packages may be able to defer tuition payment by making arrangements with the Financial Aid Office.

**Broome Community College does not defer SUMMER tuition based on a TAP award or on a student loan.**

## RIGHTS AND RESPONSIBILITIES OF FINANCIAL AID RECIPIENTS

Student recipients of financial aid are the beneficiaries of money made available by a variety of agencies - federal, state, institutional, and/or private. The act of accepting a financial aid award signifies that the recipient knows about, understands, and is willing to comply with both the rights and the responsibilities involved with that award. Thus, it is the recipient's **RIGHT TO KNOW**:

- 1) What federal, state and institutional financial aid programs are available.
- 2) The deadlines for submitting application forms for each assistance program.
- 3) The cost of attending the college and the refund policy.
- 4) The criteria used by the college to determine academic eligibility.
- 5) What resources (such as parental contribution) are considered in the calculation of financial need and how much of that need, as determined by the college, has been or will be met, and how (loan, grant and/or work-study).
- 6) How much of the financial aid will have to be repaid, and what portion is a grant (gift-aid). If the aid is a loan, the recipient should know what the interest rate is, the total amount that must be repaid, the repayment procedures, the length of time allowed to repay the loan and when repayment is to begin.
- 7) How the college determines whether the student recipient is making satisfactory progress and what happens if not.

It is the recipient's **RESPONSIBILITY** to:

- 1) Know and understand fully the financial aid program and one's specific financial aid package before signing forms.
- 2) Make sure that all application forms are completed accurately and submitted, on time, to the right place.
- 3) Pay special attention to and accurately complete the application for student financial aid. Errors can result in long delays in the receipt of financial aid. Intentional misreporting of information on application forms for federal financial aid is a violation of law and is considered a criminal offense subject to penalties under the U.S. Criminal Code.
- 4) Return any and all additional documentation, verification, correction, and/or new information requested by either the Financial Aid Office or the agency to which the application is submitted.
- 5) Read and understand all forms that one signs and keep copies of them.
- 6) Accept responsibility for all agreements signed.
- 7) Notify the lender of changes in name, address or school status, if one has a loan.
- 8) Perform the work that is agreed upon in accepting a Federal Work-Study award.
- 9) Know and comply with the deadlines for application and/or reapplication for aid.
- 10) Know and comply with the school's refund procedures.



# HOW TO APPLY FOR FINANCIAL AID

TO BE CONSIDERED FOR FINANCIAL AID, STUDENTS MUST APPLY EACH ACADEMIC YEAR.

## FEDERAL AND STATE GIFTS

All financial aid applicants will be expected to apply for two major sources of financial aid: the Federal Pell Grant and New York State's Tuition Assistance Program (TAP). Out of state residents should contact their State Educational Agency or the Financial Aid Office for information on state grant assistance from their state of residence. Although the College provides information, applications and assistance, these funds are not generated by the College and must be applied for directly by the student to the agency. Students may apply for the Pell and TAP grants with the Free Application for Federal Student Aid (FAFSA) and the New York State TAP application.

Part-time students who enroll for at least 3 but less than 12 credits may be eligible for New York State's Aid for Part-Time Study (APTS) program. Unlike TAP, students must apply directly to the College for determination of eligibility.

Applications and information regarding these and other programs are available at the Financial Aid Office (Student Center Building, Room 213, Phone 778-5028).

## CAMPUS-BASED FINANCIAL AID

To be considered for both the Federal Pell Grant AND financial aid administered by the College (Campus-Based Aid), students must submit their Federal Student Aid Report (SAR) and the BCC Application for Financial Aid to the Financial Aid Office. By filing the forms outlined above, students will be considered for the following campus-based financial aid in addition to the Federal Pell Grant:

### FEDERAL CAMPUS-BASED AID

Federal Perkins Loan (Formerly National Direct Student Loan-NDSL)  
Federal Work Study (FWS)  
Federal Supplemental Educational Opportunity Grant (FSEOG)

### INSTITUTIONAL CAMPUS-BASED AID

BCC Foundation Grants

The College administers a number of programs which have been established by private individuals, companies, and organizations. These scholarship and grant programs have varying eligibility requirements. Students who wish to apply for these special scholarships should complete the FAFSA and the BCC Application for Financial Aid.

## PRIORITY FUNDING DATES

Fall Semester ..... April 1  
Spring Semester ..... November 1

Incoming students should apply for financial aid when they apply for admission. Because all campus-based funds are limited, students are strongly encouraged to submit the appropriate forms at least four weeks before the above priority dates.

Completed applications received prior to April 1 will be given first priority. Applications received after this date will be considered as long as funds are available and will be completed in date received order.

The FAFSA should be mailed to the Federal processor before March 1. After processing the student will receive their SAR which must be submitted to the College by April 1. All students are required to submit their Federal Student Aid Report (SAR) to the Financial Aid Office, regardless of their eligibility for Federal Pell Grant funding, in order to be considered for any of the Federal financial aid programs.

## VERIFICATION

Once the Financial Aid Office has received the results of your processed application, you may be selected for a process called verification. This is a procedure used to check the accuracy of the information you reported on your federal financial aid application. You may be required to bring or send any supporting documentation that is necessary to verify the information you reported. If selected, you must complete the process before your financial aid can be awarded.

## NOTIFICATION OF DECISIONS

Students are generally notified of the action taken on their application shortly after June 30. Students who apply late will be notified as folders are completed.

If a student's request for aid is denied, the reasons for the decision are explained. Students may request an appeal on financial aid decisions by writing a letter to the Director of Financial Aid.

**NOTE** – Students who have been administratively dropped from their class(es) for non-attendance will receive a reduced financial aid award. If financial aid has already been disbursed, a repayment of a portion or all of these funds may be owed to the College.

## SATISFACTORY ACADEMIC PROGRESS FOR TAP, APTS & TITLE IV AID

Federal regulations require aid recipients to maintain "satisfactory academic progress" before receiving Title IV aid (Federal Pell Grant, Federal

Perkins Loan, FWS, FSEOG, Federal Stafford Student Loan, Federal Unsubsidized Stafford Loans and FPLUS). The College also requires satisfactory academic progress before students may receive grant assistance from the BCC Foundation or Educational Opportunity Program (EOP). The guidelines used to determine academic progress are outlined on page 26 of the catalog.

Students who have been placed on academic probation may continue to receive financial assistance while on probation. These students have one semester to achieve the minimum standards before facing dismissal from the College.

Students who have been academically dismissed will be denied aid until such time as they can meet the criteria set forth for satisfactory academic progress. Guidelines for appealing the decision of academic dismissal are outlined on page 26 of the catalog. Students who successfully petition for a waiver of dismissal may be eligible for financial aid. Students who are allowed to continue taking classes but are not in good academic standing are not eligible to receive financial aid. Only one petition of academic dismissal based on unusual circumstances is allowed during a student's educational career.

The College has also adopted New York State Tuition Assistance Program (TAP) and Aid for Part-Time Study (APTS) guidelines which require good academic standing for students to continue receiving TAP & APTS. Contact the Registrar's Office in Room 206 of the Wales Building for a copy of the guidelines.

## FINANCIAL AID REFUND POLICIES, PROCEDURES

Financial aid refunds will be made for those students that receive tuition and fee refunds in accordance with the College's refund policy (see page 11) and for those students that are administratively withdrawn from classes due to non-attendance (see page 27). Students that are administratively withdrawn from non-attendance will lose 100% of the financial aid received for each course that is dropped. All other students will lose a percentage of their financial aid based on the percentage refund of tuition and fees that they receive.

As mandated by Federal law the institution will credit refunds of financial aid in the following order:

- To outstanding balances on FFEL Program loans (i.e. Stafford, Unsubsidized Stafford, and PLUS loans);
- To outstanding balances on Federal Direct loans;
- To outstanding balances on Federal Perkins loans;
- To Federal Pell Grant awards;
- To Federal SEOG awards;
- To awards under the FWS Program;
- To other Title IV student assistance; and
- To the student.



## PACKAGING POLICY

At Broome Community College the equity concept of financial aid packaging is used. Eligible students are funded on a need basis and a first-come, first-served order.

The Federal Pell Grant and the New York State Tuition Assistance Program (TAP) represent the floor of the package followed by any employment, loans and grants available.

This kind of financial aid packaging ensures that any student who wishes to attend a post-secondary institution will have the opportunity to obtain the needed funding.

An example of the equity concept:

- (1) Total Student Costs (Budget)
- (2) Subtract Resources:
  - a) Parental Contribution
  - b) Student Contribution
  - c) Other Resources

Initial Financial Need

- (3) Subtract:
  - a) Tuition Assistance Program (TAP) Grant or Estimate
  - b) Federal Pell Grant or Estimate

Unmet Need for Campus-Based Aid

- (4) Subtract:
  - a) Educational Opportunity Program (EOP)
  - b) Federal Perkins Loan, (Formerly NDSL)
  - c) FWS
  - d) FSEOG
  - e) BCC-Grant in Aid

Unmet Need \*

\* Most students are able to satisfy their unmet need through the Federal Stafford Student Loan Program. The amount of unmet need may vary from year to year.

## GRANTS

**NOTE** – The following financial aid information is current as of Fall 1995. Due to reauthorization of the Higher Education Act some of this information may be changed during the academic year. Please contact the Financial Aid Office for updated information.

ELIGIBILITY	AMOUNT PER YEAR	WHERE/ HOW TO APPLY
-------------	-----------------	------------------------

### TUITION ASSISTANCE PROGRAM (TAP)

Summer TAP Awards are available for students taking six or more credits and who are full time the semester before or after the summer semester.

Full-time student at any accredited college in New York State. Resident of New York State. Income and academic guidelines involved.	\$100 to \$4,125, not to exceed 90% of tuition. Based on income.	New York State Higher Educational Services Corp. (HESC), 99 Washington Avenue Albany, N.Y. 12255 Forms Available in BCC Financial Aid Office.
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### VIETNAM VETERANS TUITION AWARD SUPPLEMENT

Full-time and part-time students who are US citizens, residents of NY State and served in the armed forces in Indochina between December 22, 1961 and May 7, 1975 who have been discharged from the service under other than dishonorable circumstances.	Up to \$1,000 per semester or tuition whichever is less for full-time students; Up to \$500 per semester or tuition whichever is less for part-time students. Cumulative total may not exceed \$10,000.	Forms available in the BCC Veterans Services and Financial Aid Offices. Full-time students must also apply for Pell and TAP grants; part-time students must apply for Pell grant.
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### CHILD OF VETERANS AWARD SUPPLEMENT

Full-time students that are children of eligible NY State veterans. Eligible veterans must meet specific criteria for eligibility. For further information in regard to eligibility contact the BCC Veterans Services Office.	\$450 per year regardless of income or tuition costs for up to four years. In combination with a TAP award may not exceed tuition.	Forms available in the BCC Veterans Services and Financial Aid Offices.
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### AID FOR PART-TIME STUDY (APTS)

Part-time students and residents of New York State. Must enroll for at least 3 but less than 12 credit hours. Income and academic guidelines involved.	Amount of tuition or less depending on need and availability of funds	Forms and further information available in BCC Financial Aid Office. Applications must be submitted no later than the end of the tenth week of classes.
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ELIGIBILITY	AMOUNT PER YEAR	WHERE/ HOW TO APPLY
-------------	-----------------	------------------------

### EDUCATIONAL OPPORTUNITY PROGRAM (EOP)

Full-time and half-time students with financial need and less than an 82 high school average. Family income must be below a specific level.	Varies according to individual need. Average of \$100 per student per academic year.	Application available in the Educational Opportunity Program Office at BCC.
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### FEDERAL PELL GRANT PROGRAM

Accepted and enrolled in at least 3 credit hours as an undergraduate student with demonstrated financial need.	From \$400 to \$2,340 annually.	Forms available in BCC Financial Aid Office and in high school guidance counselor offices after Jan. 1.
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### FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)

For full-time or half-time students with demonstrated high financial need. Must also be Federal Pell Grant eligible.	Up to \$4,000 depending upon need and cost of college expenses.	Student must submit a Federal Pell Grant Student Aid Report and BCC Application for Financial Aid. Forms available in BCC Financial Aid Office and in high school guidance offices after Jan. 1.
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### BCC FOUNDATION GRANTS

Full-time or half-time students on a first-come, first-served basis.	Varies according to individual need.	Submit a Federal Pell Grant Student Aid Report and BCC Application for Financial Aid. Forms available in BCC Financial Aid Office.
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### NYS AID FOR NATIVE AMERICANS

Full-time and half-time students.	Varies according to individual need and type of award.	Must file annually with the Bureau of Indian Affairs. Applications are available from the US Department of Interior, Bureau of Indian Affairs, Federal Building Room 523, 100 South Clinton Street, Syracuse, NY.
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FOR ADDITIONAL INFORMATION  
CONSULT THE FINANCIAL AID OFFICE.



## LOANS

ELIGIBILITY	AMOUNT PER YEAR	WHERE HOW TO APPLY
<b>FEDERAL PERKINS LOAN</b>		
For full-time or half-time students with demonstrated high financial need. Student borrows from the college on own signature. Awarded on a first-come, first-served basis.	From \$200-\$3,000 per year. Maximum aggregate amount is \$15,000.	Students must submit a Federal Pell Grant Student Aid Report and BCC Application for Financial Aid. Forms available in BCC Financial Aid Office and in high school guidance offices after Jan. 1.

### FEDERAL STAFFORD STUDENT LOAN

For full-time or half-time students. Student borrows on own signature from a participating bank. Student must show financial need.	Maximum of \$2,625 for the first, \$3,500 for the second, and \$5,500 for the third and fourth years of an undergraduate program — not to exceed a cumulative of \$23,000.	Federal Stafford Loan applications can be obtained at most banks or credit unions. Processed applications must be on file in the Financial Aid Office, along with BCC Application for Financial Aid and a Federal Pell Grant Student Aid Report.
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### FEDERAL PARENT LOAN FOR UNDERGRADUATE STUDENTS (FPLUS)

Loan program for parents of dependent undergraduate students enrolled at least half-time.	No annual or cumulative limits. Loan amounts may not exceed the students cost of attendance minus other estimated financial aid. Parent borrower will be subject to a credit history review and may be determined ineligible due to an adverse credit history.	Applications are available at most banks or credit unions from state of residence.
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## EMPLOYMENT

ELIGIBILITY	AMOUNT PER YEAR	WHERE HOW TO APPLY
<b>FEDERAL WORK-STUDY (FWS)</b>		
For full-time or half-time students with financial need. Awarded on a first-come, first-served basis.	Students may work up to 20 hours a week when classes are in session or up to 37-1/2 hours a week during vacation. Wage: Minimum.	Student must submit a Federal Pell Grant Student Aid Report and BCC Application for Financial Aid. Forms available in BCC Financial Aid Office.

FOR ADDITIONAL INFORMATION  
CONSULT THE FINANCIAL AID OFFICE.

ELIGIBILITY	AMOUNT PER YEAR	WHERE HOW TO APPLY
<b>UNSUBSIDIZED FEDERAL STAFFORD STUDENT LOAN</b>		
For full-time or half-time students. Student borrows on own signature from a participating bank. No financial need required. Student must make interest payments or capitalize interest payments while attending school.	Same as Federal Stafford Student Loan program. Combination of subsidized and unsubsidized Federal Stafford Student Loans may not exceed annual and cumulative limits for loans under the Federal Stafford Loan program. Independent students may borrow an additional \$4,000 above the Stafford Loan limits per year based on cost of attendance minus other aid.	Same as Federal Stafford Student Loan program.

### PAULINE PARKER LOAN

For full-time students who are Broome County residents, under 25 years of age, and in financial need.	\$1,000 maximum per year. No more than \$500 per semester. No interest charge.	Forms available in BCC Financial Aid Office.
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## FINANCIAL AID TIME FRAME

Students may only receive Federal financial aid for up to 150% of the time/credits necessary to graduate from their program of study (i.e. if the degree requirement equals 60 credit hours, the student may attempt up to 90 credit hours with funding). Beginning with the first semester of matriculation into a degree granting program of study, all college level credit hours (i.e. courses designated at the 100 level or higher) that a student registers for (excluding those dropped during the first week of classes or those never attended) are counted toward this time frame. Credit hours that a student attempts at their own expense also count toward the 150% time limit. Once a student has reached the maximum number of attempted credit hours allowable for their program of study, they are no longer eligible to receive any form of Federal financial aid.

Changes in major do not set back the students maximum allowable time frame. Rather, a change in major program may impact the total number of credits allowable in either a positive or negative direction based on the new degree requirement.

Remedial courses (i.e. those designated below the 100 level) and English as a Second Language (ESL) courses that a student attempts do not count toward the 150% time frame. Students are allowed to attempt up to 30 credit hours of remedial course work and 30 credit hours of ESL course work with Federal funding. Once a student has attempted up to this limit, they are no longer eligible to receive any form of Federal financial aid for additional remedial or ESL course work attempted.

New York State has set up a separate policy in regard to time frames for TAP recipients. Students attending two-year colleges in the State of NY (with the exception of those students enrolled in the Educational Opportunity Program (EOP)) may only receive up to (3) years of TAP payments.



# PROGRAMS OF THE COLLEGE

## DEGREE PROGRAMS

Graduates of Broome Community College receive associate degrees, and the courses of study are organized into four areas of study-Business and Office Technologies; Technologies, Engineering and Computing; Health Sciences; Liberal Arts and Related Careers. Liberal Arts courses are included in all curriculums, and all students must meet the College's General Education requirements. Applicants to the College should consider carefully the type of program they wish to pursue, for the nature of the offerings makes it difficult to switch from one curriculum to another after commencing studies.

### BUSINESS

The Business curricula are designed primarily to prepare graduates for immediate employment in one of 10 fields-Accounting, Banking, Hotel/Restaurant Management, Travel & Tourism, Entrepreneurship, Management, Marketing, Administrative Assistant, Executive Secretarial and Records/Information Management. In addition, there is an 11th option, Business Administration, that combines more university parallel preparation with a minimum of job-oriented courses. Business Administration is also available with an emphasis in International Business and an emphasis in Healthcare Services Administration. This program is intended for students who plan to continue their college education even though they may want to work for a while before transferring to a four-year college. In addition students in the other 10 programs will find ample college transfer opportunities.

Even though it is possible to transfer to four-year institutions from all programs, each student's transfer credits are evaluated by the four-year institutions and the number of credits accepted may vary.

### HEALTH SCIENCES

Opportunities for men and women interested in the health sciences field are provided in seven areas - Dental Hygiene, Medical Assisting, Medical Laboratory Technology, Health Information Technology, Nursing, Physical Therapist Assistant and Radiologic Technology. Graduates are prepared to work immediately after graduation in physicians' or dentists' offices, laboratories, schools, nursing homes or hospitals. A.A.S. graduates of these programs are qualified to take whatever licensing or certification examination their professions require as a result of the state/national accreditation held by all BCC Health Science programs. Graduates may be eligible to transfer to upper division colleges and universities. The College also offers a Dietary Manager Certificate program for those working in the field.

### LIBERAL ARTS AND RELATED CAREERS

University parallel curricula in Arts and Sciences, and Special Career Programs of an occupational nature are included in this division. Curriculums in Arts and Sciences prepare students for transfer to four-year colleges and universities. While the aim of liberal learning is to broaden human perspective and deepen understanding

through the study of philosophy, history, natural sciences, literature and the arts, students who identify career/professional goals early can also begin to develop appropriate academic concentrations. Liberal Arts and Related Careers degree programs are also offered for those seeking immediate employment. Refer to the career models on pages 74 through 76 in this catalog.

The College offers, through its Special Career Programs Department, degree opportunities in five other academic areas - Early Childhood, Criminal Justice, Fire Protection Technology, Individual Studies and Paralegal Assistant. All lead to the Associate in Applied Science degree, and Individual Studies students may earn either that degree or the Associate in Science degree, depending on their program of study.

### TECHNOLOGIES, ENGINEERING AND COMPUTING

In the area of technical education, the College offers 9 programs. One, Engineering Science, is in effect the first two years of a four year engineering curriculum. Students who do satisfactory work in it should experience little difficulty in transferring to engineering colleges at the third-year level.

Four others are designed to educate engineering technicians in the fields of Chemical Engineering Technology, Civil Engineering Technology, Electrical Engineering Technology and Mechanical Engineering Technology. Students in these programs are prepared for employment in various types of technical work immediately after graduation, although many students do transfer to four-year colleges.

The Computer Studies Department offers three programs - Computer Science, Computer Technology and Computer Information Systems. The Computer Science Program is designed for transfer to four-year colleges, while graduates of the other two are prepared for immediate employment.

The final program in the technical field offered at the College is Industrial Technology which is designed for people already in the work force. Emphases are offered in several technical disciplines.

### CERTIFICATE PROGRAMS

Broome Community College also has certificate programs which are less than two years in length, have more specific objectives than the associate degree offerings, and consist of about one year of college credit. Some are designed to prepare students for jobs that require specialized higher education, but not necessarily a college degree; some provide students with an opportunity to upgrade their academic backgrounds or expand their qualifications for a particular field of study; and some offer college credits and additional training of people already working in the field.

Most of the certificate offerings carry college credits, and they can lead a person into some of Broome Community College's degree-granting curriculums. They can be taken on a full-time or part-time basis, and most of them are offered in

the evening although some are available through day classes. No specific high school courses are required for enrollment.

### CERTIFICATE PROGRAMS

#### Business Emphasis

Accounting

Management

Marketing/Sales/Retailing

#### Early Childhood

Criminal Justice

Dietary Manager

Fire Protection Technology

#### Industrial Technology Emphases

Chemical

Civil

Electrical

Mechanical

Production Management

Quality Assurance

Interior Design

Liberal Arts

Office Technologies (9 months)

Paralegal

Records Information Management

(Requires completion of a 2 year degree or minimum of 2 years experience in a related career.)





## HONORS PROGRAM

The Honors Program is designed for the student who wants to be involved in her/his own education, and is open to qualified students from most departments of the College. Participants are challenged to expand their understanding of life and reality through specially designed honors courses in English, History and Social Sciences, as well as extra curricular activities, close contact with honors faculty, and involvement with other highly motivated students.

Student's benefits include an increased awareness of political, economic, and social issues, development of critical thinking skills, and preparation for creative leadership in the 21st Century, as well as an Honors diploma, an important asset in the competition for placement at selective four-year institutions.

To apply, students who believe they meet the qualifications below may obtain an application through high school guidance departments or from Bruce Oldfield, Program Coordinator, Honors Program, Broome Community College, Binghamton, New York 13902.

### HONORS PROGRAM ADMISSIONS REQUIREMENTS — HIGH SCHOOL SENIORS

- 1) GPA of at least 3.2 (80 average).
- 2) SAT combined score of 1,050 or above with no subscore below 450.

#### OR

ACT composite score of 24 or higher with Math and English subscores of at least 21.

- 3) Two letters of recommendation:  
One from a teacher.  
One from a non-scholastic source such as an employer, club advisor, coach, or volunteer supervisor.
- 4) Students from New York - Regents Diploma.

### FOR NON-TRADITIONAL OR TRANSFER STUDENTS

Because BCC has a large number of persons enrolled who do not come directly from high school, we want to make it possible for them to participate in the Honors Program: (1) Full time students having completed one semester at Broome with a 3.5 GPA. (2) Part-time students enrolled in a minimum of a 6 hour load per semester having accumulated 12 hours of credits with a 3.5 GPA. (3) Transfer students having either of the above.

## ALTERNATIVE AND INDIVIDUALIZED LEARNING

Broome Community College considers various non-traditional learning activities for credit. By documenting and demonstrating the learning that has taken place, matriculated students may be awarded academic credit.

The divisional dean is the initial contact for students interested in obtaining more information about non-traditional study and examination programs. Students will be assisted in determining whether or not such study or evaluation would be worth pursuing.

The academic department, sponsor of the student's degree program, is responsible for integrating any credit achieved in this manner into the student's academic program. All procedures entail fees. Inquire in your divisional office. Following are examples.

## ADVANCED PLACEMENT EXAMINATION (AP)

The College will recognize for credit the AP examinations of the College Entrance Examination Board. A score of three or above is generally acceptable for credit, but each academic department establishes its policy. Laboratory courses may require additional lab work for full credit for a college course. Credit awarded will be handled as a transfer credit.

## COLLEGE PROFICIENCY EXAMS (CP)

The CP exams of the University of the State of New York will be recognized for credit upon approval by the appropriate department. Credit awarded will be handled as transfer credit.

## COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College will recognize successful achievement at or above the 50th percentile on CLEP subject exams in accordance with SUNY and American Council of Education guidelines. Approval of credit for degree requirements or electives is determined by the appropriate department. Credit approval will be handled as transfer credit. Under certain circumstances, a department may accept general examination scores.

## BCC CREDIT BY EXAMINATION (CBE)

The College in many instances provides for full or part-time BCC matriculated students credit by examination for knowledge gained outside the traditional classroom situation. A letter grade will be posted on the student's transcript upon completion of the exam. Guidelines for this procedure are available from the College's chairpersons and deans. If a student receives an "F" grade after normal completion of a course, no credit by examination may be given in that subject.

## PORTFOLIO ASSESSMENT (Special Individual Assessment)

The College will evaluate for credit various types of learning acquired outside the usual classroom environment. Particular criteria for awarding credit may be applied by an academic department. Approval of credit is the responsibility of the appropriate department. Students must clearly identify what has been learned. Contact the divisional dean for additional information. (Fees, page 10.)

## SPECIAL ASSESSMENT OF EXPERIENTIAL LEARNING

The College will evaluate for credit various types of learning acquired through participation in learning experiences, or training provided by business, industry, unions, professional societies, governmental agencies or the military. Particular criteria for awarding credit may be applied by an academic department, and approval of credit is the responsibility of the department. Contact the divisional dean for additional information.

## SELF-INSTRUCTIONAL LANGUAGE PROGRAM

The College offers an instructional program to groups of 3-5 students in Arabic, Chinese, Greek, Hebrew, Irish, Japanese, Korean, Lithuanian, Polish, Russian, Swedish, and Welsh. Students must be highly motivated as the instructional program relies upon self-study combined with tutorials. Emphasis is on speaking. Broome Community College adheres to the standards and guidelines of the National Association of Self-Instructional Learning (NASILP).

## CREDIT FOR NON-ACADEMIC EXPERIENCE

Credit may be given for relevant experiential learning acquired in various contexts. A number of methods exist for receiving this credit, and details are available from the dean of the division in which one is pursuing a degree.

Students may also find it advantageous to request credit by examination for a course in a field in which they have extensive knowledge and/or experience. By passing an examination, one can receive course credit. However, before being permitted to take an examination, students must satisfy a faculty committee as to their qualifications. Credit by examination is given only to matriculated students and a fee is charged. (See page 10.)



### SEMESTER ABROAD PROGRAMS

BCC provides formal, structured programs lasting for a semester, or a year, in England, France, Spain, Italy, Cyprus, Ecuador, Greece, Ireland, Portugal, Sweden, Israel, Mexico, Japan, China, Germany and Switzerland. Students study a full semester program (usually 15 to 18 credits) that is arranged prior to their departure at affiliated schools, institutions, colleges or universities abroad.

The subject areas range from liberal arts courses to specialized programs, such as criminal justice, international business and languages. Costs of these programs vary greatly, with emphasis on high quality programs at public institutions. The costs approximate those at U.S. public colleges. For 1994-95, the cost of a full semester in the popular program in England was about \$3,900. This includes room and board, all tuition cost, and many extras.

Many BCC students will find their academic and personal lives enriched through a cultural experience difficult to match in a conventional two-year course of study in this country.

### ADMISSION TO PROGRAMS

Admission to the College does not automatically ensure admission to BCC programs overseas; separate application must be made. Students will be evaluated on their academic ability, motivation, maturity and potential adaptability to a foreign culture. In addition to BCC approval, interviews with personnel from affiliate consortium institutions may be required. All programs are available to students from any college or the general public. At least one-half of the participants last year were community residents who went on short-term programs. Prior knowledge of a foreign language is not necessary.

### JANUARY & SUMMER SHORT PROGRAMS

During each academic year BCC conducts a variety of short-term programs in January and in the summer months. Students at BCC who have been introduced to study abroad through these short-term programs, usually two to three weeks in length, often decide to study overseas for a semester or year.

The short-term courses have grown in scope, as well as in number. During recent intersessions, students were able to study Italian Culture and Art in Italy and Tropical Field Ecology in the Virgin Islands. Costs for these programs last year started at \$1,300. A list of the January offerings is usually available by November.

The summer programs vary in length from two weeks to one month. Recent offerings have included Italian Culture and Language, and Field Ecology in Australia.

During the summer, there are special month-long programs at the University of Madrid for Spanish students and the University of Caen for French students. The cost of these programs was \$3,900 each for 1995 but some students are able to qualify for scholarships. A similar program is offered in England. A full list of courses being offered during the summer is usually available in March.

### STUDENTS FROM OTHER NATIONS (See Page 32.)

### CREDITS, TRANSCRIPTS AND TUITION

#### For Study Abroad, Semester, Intersession and Summer Session

Students register at BCC and pay the appropriate tuition, which in many cases covers the instructional cost abroad. Students are monitored through consortium offices at the college they attend. Upon the successful completion of the formal program or after fulfillment of the contract, students will receive a BCC transcript reflecting the grades achieved or the course equivalents for the work done through the contract, greatly facilitating transfer of credits to other American institutions.

Full-time students registering for courses that are scheduled other than in the Fall or Spring Semesters will be charged at the part-time tuition rate. Sessions other than fall and spring semesters will be called Summer Session and Intersession. Students earning credits in Summer Session and Intersession courses may earn up to 18 credits in the fall or spring semesters or up to 21 credits with permission of the appropriate dean and department chairperson.

Students who wish to earn more than six hours during any of the Summer Session terms or the Intersession are required to obtain the approval of the appropriate dean and department

chairperson. The refund policy is not in effect for students taking courses in Intersession. Refund policies in semester length programs are determined by the receiving foreign institutions.

Grades received for all courses taken from the beginning of the Fall Semester through the end of that semester will be considered first semester grades. Grades received for all courses taken from the end of the first semester through the end of the second semester (even if taken in January or abroad) will be recorded as second semester grades.

Summer Session is treated like a third semester. Its dates begin after the Second Semester Master Schedule of courses is complete through the beginning of the fall semester (grades for all Summer Session terms under the transcript heading, Summer Session). All credits earned are Broome Community College credits, which allows students to use their financial aid packages for semester length programs.

Students may earn up to 18 credits per semester, leading to an associate degree. Credits for Intersession/short-term programs range from one to six, depending on the time spent abroad, and the instruction offered in the program.

An Overseas Study bulletin board is maintained in the first floor lobby of Titchener Hall.

For additional details about any of the above programs, students should contact the International Studies Program Office at Broome Community College in M222 or T211 (Phone 778-5087).

### COLLEGE-ON-THE-WEEKEND PROGRAM

College-on-the-Weekend is one way Broome Community College has responded to the needs of a growing number of non-traditional students. Many people wishing to continue their education just cannot find the time during the week. Even evening classes pose a problem for working parents raising families.

Now you can earn a degree, part-time, attending classes every third weekend — six weekends each semester. You can take one, two or three classes per term and earn your Associate's Degree in as little as 2-1/2 years. Weekend students may start the program at the beginning of any semester; they begin in September and January of each year.

Take one, two or three courses and progress at your own pace. You can even combine College-on-the-Weekend with weekday evening courses at BCC and move along more rapidly. Now you can return to college on your terms — with a schedule that fits your lifestyle.

Presently BCC College-on-the-Weekend students may earn an Associate in Applied Science Degree in Business with an emphasis in Management or Marketing or an Associate of Applied Science Degree in Accounting.

Various courses will be scheduled each semester to ensure that all students will be able to take all necessary courses during the fall, spring or summer terms. Students with business courses from other colleges should call about credit transfer. For more information call the Business Division (607) 778-5008.

#### Weekend Services

BCC student services available to College-on-the-Weekend students:

- |                              |                    |                |            |
|------------------------------|--------------------|----------------|------------|
| • Financial Aid              | • Library Services | • Lab Proctors | • Lounge   |
| • Learning Assistance Center | • Study Areas      | • Computers    | • Advisors |



## COOPERATIVE PROGRAMS WITH OTHER COLLEGES

Broome Community College has direct transfer agreements with a number of four-year colleges to facilitate the acceptance of BCC graduates into the third year of study. The number of colleges with which BCC has such agreements is increasing each year. Further details are available in the Counseling and Student Development Center (Wales Building, Room 200).

### IN ENGINEERING SCIENCE

The Engineering Science Department has a joint admissions program with Binghamton University (Watson School). It has a General Articulation Agreement with the Association of Engineering Colleges of New York State and separate agreements with Wilkes University and the Clarkson University School of Management. Contact the Department of Engineering Science for more information.

### WITH BINGHAMTON UNIVERSITY

#### TRANSFER AGREEMENT

All Broome Community College students who have graduated or will graduate with an AA or AS degree with a grade point average of at least 3.0 will be admitted, upon application, as matriculated students at Binghamton University as space permits. Those students graduating with the above degrees but with a grade point average between 2.6 and 3.0 are usually admitted. Others, including those with an AAS degree, should contact the Binghamton University Office of Admissions. Admitted students will be granted junior-year standing upon presentation of 56 or more transferable credits.

#### CROSS-REGISTRATION

Full-time BCC students enrolled in full-time studies (12 or more credits) may cross-register at Binghamton University for one course each semester. The courses for which they cross-register must be courses that are not available at Broome Community College. No additional tuition is necessary. Additional information is available in the Registrar's Office in the Wales Building, Room 206.

### WITH KEYSTONE JUNIOR COLLEGE

BCC students may also cross-register at Keystone Junior College in LaPlume, PA for one course each semester. The courses for which they cross-register must be ones that are not available at Broome Community College, and they can take them without paying additional tuition. Additional information is available in the Registrar's Office (Wales Building, Room 206).

### WITH COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY (SUNY)

#### Pre-Environmental Science and Forestry

This program is designed for those students who ultimately desire a B.S. degree in Environmental Science and Forestry (ESF), which is an upper division/graduate center.

After the first two years of study at Broome Community College, transfers to ESF may apply to a variety of programs at Syracuse which may include the **biological sciences** (botany and forest pathology, entomology, zoology, wildlife biology, silvics, pest management); **chemistry** (natural and synthetic polymers, biochemistry and natural products, environmental); **forest engineering, paper science and engineering; wood products engineering; and forestry** (resource management, forest resource science, management science, environmental forestry, applied resource management). The program in **landscape architecture** leads to a B.S. degree in environmental studies and, after one additional year, a Bachelor of Landscape Architecture degree.

Persons planning to transfer should follow the program requirements in consultation with BCC's Pre-Environmental Science and Forestry campus advisor for selection of electives which may vary according to the curriculum at ESF.

Successful graduates of Broome Community College's Pre-Environmental Science and Forestry Program generally gain admission to the SUNY College of Environmental Science and Forestry with full junior class status.

Contact Anthony Lotempio (Science Building, Room 216).

### ARTICULATION AGREEMENTS

Broome Community College has special articulation agreements with many 4 year colleges for the purpose of gaining as many transfer credits as possible for BCC graduates who wish to study at those schools after completing their studies at BCC. Students are encouraged to contact the Counseling and Student Development Center for more information (Wales Bldg., Room 200).

### GUARANTEED TRANSFER PROGRAM WITH STATE UNIVERSITY OF NEW YORK

Students who graduate from Broome Community College with Associate in Arts or Associate in Science degrees are guaranteed admission at the third-year level, to a four-year college of the State University of New York. This guarantee has some limitations, and details are in the Counseling and Student Development Center (Wales Building, Room 200).

### ONE-PLUS-ONE PROGRAMS

Broome Community College has One-Plus-One Programs with other two-year colleges to enable a student to attend BCC for one year and then transfer to the other college for the second year for the Associate in Applied Science degree. This program permits students to begin studying at BCC for a degree in a field not offered at this college. By taking the BCC courses that one needs for the particular degree involved, residents of Broome County can enjoy the advantage of living at home during one year of their college attendance. Students taking these One-Plus-One Programs are Liberal Arts and Related Careers students at Broome Community College because most of the courses they take at BCC are Liberal Arts and Related Careers courses.

Check with the Liberal Arts and Related Careers Office for more information about these programs.

### THREE-PLUS-ONE PROGRAM

Broome Community College has a Three-Plus-One Program with the Department of Nursing at SUNY - Brockport. After completion of the AAS degree in Nursing at Broome Community College, students take additional courses at Broome Community College during the third year. After successfully completing entrance exams, the student is admitted to SUNY - Brockport for completion of the Bachelor of Science in Nursing degree.



# SPECIAL TRANSFER PROGRAMS



Broome Community College graduates will be able to transfer to a wide range of baccalaureate programs and institutions. Listed below are some colleges with whom BCC has special arrangements.

Contact the Admissions Office at BCC, the appropriate department chairperson, and/or a counselor in the Counseling and Student Development Center for specific information on course requirements. Many four-year colleges require specific grade point averages for transfer and eligibility.

## **Association of Engineering Colleges of New York State Engineering Science**

### **Bentley College**

Accounting, Computer Information Systems, Economics, Finance, Law, Management, Marketing, Quantitative Analysis

### **Binghamton University**

Watson School of Engineering, Harpur College, School of Nursing

### **Clarkson University**

School of Management

### **College of St. Rose**

All AA, AS Degrees

### **Cornell University (College of Human Ecology)**

Human Development and Family Studies  
Interior Design

### **Fairleigh Dickinson University**

AAS Degree in Civil, Electrical, Mechanical Engineering Technology

### **LeMoyne College**

Any baccalaureate degree program with AA or AS in Liberal Arts and Related Careers, Business Administration, Engineering Science

### **Marist College**

Parallel programs in Business (Marketing, Management) Accounting, Engineering Technology, (Civil, Electrical, Industrial and Mechanical)

### **Rochester Institute of Technology**

AA, AS, AAS Degrees

### **St. John Fisher College**

AA, AS degree programs, Liberal Arts and Related Careers, Business Administration, Engineering Science

### **SUNY College at Alfred**

AAS in Electrical Engineering Technology, Mechanical Engineering Technology, Civil Engineering Technology.

### **SUNY College at Brockport**

Nursing, Business Administration, Criminal Justice, Liberal Arts and Related Careers and LGS Mental Health Emphasis degrees will be accepted in Brockport's Recreation and Leisure program and Social Work program

### **SUNY College at Cortland**

Elementary Education, Computer Science

### **SUNY College of Environmental Science and Forestry**

Biological Sciences  
Chemistry  
Construction Option (Civil)  
Landscape Architecture  
Forest Engineering  
Paper Science and Engineering Wood Products

### **SUNY College at Fredonia**

AA degree into Business Administration or Liberal Arts and Related Careers or Radio and Television.  
AS degree into Math, Physics, AAS in Early Childhood into Early Childhood Education

### **SUNY College at Oneonta**

AAS in Accounting, Marketing, Management, Data Processing, and AS in Computer Science

### **SUNY College at Oswego**

Business Administration  
AAS in Vocational - Technical Education

### **SUNY College at Plattsburgh**

Any Associate's Degree that leads to a baccalaureate program

### **SUNY College at Potsdam**

Any Associate's Degree that leads to a baccalaureate program

### **SUNY College at Purchase**

AA, AS degree programs in Liberal Arts and Related Careers

### **SUNY College of Technology (Utica)**

AAS in Business, Electrical, Civil and Mechanical Engineering Technology, Industrial Technology, Nursing.  
AS in Computer Science, Engineering Science, Liberal Arts and Related Careers.  
AA in Liberal Arts and Related Careers.

### **Syracuse University**

School of Management, Engineering Science

### **Trinity College**

AA, AS, AAS degrees, concentrates on Liberal Arts and Related Careers, Sciences, Business Administration, Engineering Science

### **SUNY Health Science Center at Syracuse**

Cytotechnology, Medical Technology, Physical Therapy

### **Utica College of Syracuse University**

AA, AS graduates in following concentrations - Liberal Arts and Related Careers, Business Administration, Engineering Science

### **Waynesburg College**

AS Degree graduates accepted, transfer credits determined on individual basis

### **West Virginia University**

Dental Hygiene

### **Wilkes University**

Accounting, Business Administration, Computer Science, Engineering Science, Liberal Arts and Related Careers, Nursing

### **Roger Williams College**

AS degree graduates accepted. Transfer credit determined on individual basis



# LEARNING ASSISTANCE CENTER

Department Chairperson, Steven Natale  
1st Floor Cecil C. Tyrrell  
Learning Resource Center  
Telephone 778-5038

The courses and programs offered by BCC's Learning Assistance Center are designed to help students realize their academic goals regardless of prior preparation.

## DIAGNOSTIC TESTING AND COURSE PLACEMENT

The Learning Assistance Center administers placement tests in reading, writing, and mathematics to every entering student.

The information gained from these tests is used along with other records to help place students in appropriate courses. Every effort is made to place students in courses in which they can succeed. In some cases, students will be required to enroll in non-credit developmental courses.

## DEVELOPMENTAL COURSES

Various courses are offered through the Center for those desiring skill improvement or review. Some of these carry credit; others do not. The non-credit courses listed below prepare students for credit level work in the basic skills areas of mathematics, writing and reading. These non-credit courses are equivalent in time to credit bearing classes and are applicable toward financial aid and athletic eligibility.

Developmental courses graded on a letter basis (A, A-, B+, etc.) will be calculated in the student's semester grade point average although they may not be used for the determination of Academic Honors such as Dean's or President's List. (See page 28.)

	Courses	Credit or Equivalent	Catalog Page
CHM 090	Preparatory Chemistry	0 or 4	90
ENG 090	Basic Language Skills	0 or 3	101
MAT 090	Arithmetic and the Language of Algebra	0 or 4	106
MAT 092	Intro to Concepts of Algebra	0 or 4	106
MAT 096	Metric Conver- sions & Dosages	0 or 1	106
MAT 097	Intravenous Medi- cations and Pediatric Dosage	0 or 1	106
MAT 099	Elementary Algebra	0 or 5	106
RDG 090	Reading Fundamentals	0 or 3	116
RDG 092	College Prep Reading	0 or 3	116
RDG 094	College Vocab Skills	0 or 2	116

NOTE: ENG 090, MAT 090, 092, RDG 090, 092 have strict attendance requirements, whereby

students may be deregistered from the class for poor attendance. This deregistration may result in a loss of financial aid. Consult course outline and/or instructor for further details.

Other developmental courses may be credit bearing. Students should pay close attention to catalog information pertaining to these courses and should consult their department chairpersons or Learning Assistance personnel about the acceptability of credit in a particular degree program.

	Courses	Credit or Equivalent	Catalog Page
BIO 102	Preparatory Biology	4	86
CHM 090	Preparatory Chemistry	4	90
LRS 101	Study Management	0.5	106
LRS 102	Memory and Exams	0.5	106
LRS 103	Textbook Mastery	0.5	106
LRS 104	Listening and Notetaking	0.5	106
LRS 105	Learning Skills	2	106
LRS 106	College Success	3	106
LRS 120	The Art of Thinking	1	106
LRS 130	Intro to Micro- computers and Word Processing	2	106
LRS 150	Advanced Learning Skills		106
PHY 090	Preparatory Physics I	4	113
SAC	Human Development Courses	2-3	116

## MATHEMATICS LAB

Tutorial instruction is available on a drop-in basis in the Math Lab five days and four evenings per week. Students experiencing difficulty with math courses ranging from arithmetic through calculus can receive assistance from the staff, which is comprised of professional and peer tutors as well as Mathematics Department faculty members. Individual assistance is also available for students in need of this type of instruction.

## READING AND STUDY SKILLS LAB

Professional reading teachers are available in the Reading and Study Skills Lab to assist all students in improving their reading or in mastering the art of studying efficiently and effectively. Students may choose to work with a study skills specialist or to work independently on multi-media programs on such topics as efficient time management, effective notetaking techniques, reading and remembering textbook material, or improving performance on exams. Computer programs on vocabulary improvement and speed reading are also available. Instruction is arranged by appointment according to the student's schedule.

## WRITING CENTER

At the Writing Center, professional tutors — who are writers as well as teachers of writing — help students learn techniques and strategies applicable at every stage of the writing process. In addition, peer tutors work in the Center in conjunction with an advanced writing course. All students, including those who are already confident, able writers can benefit from the Center's services, which are available both days and evenings.

In addition to providing individual and group tutorials, the Center offers a variety of activities to support and nurture students' interest in writing. Among these are workshops that address topics such as research-paper writing, overcoming writer's block, and editing the revised essay. Other examples include sponsorship of poetry and fiction readings, an annual essay contest, and an organization for creative writers.

The Center also maintains a collection of books about writing and generates instructional booklets such as guides for writing summaries and book reviews.

## PEER TUTORING

The Faculty-Student Association and the Student Support Services Program fund a peer tutoring program, which offers one to one or small group instruction to any student experiencing difficulty with a course. Tutoring takes place in the Learning Assistance Center, and tutors are trained and supervised by the Program Coordinator.

The Center is open from 8:30 a.m. to 8:00 p.m. Monday through Thursday, and from 8:30 a.m. until 4:00 p.m. on Friday. Detailed brochures describing the various programs are available at the reception desk at the Center or you may call 778-5038 for information.

## SUPPLEMENTAL INSTRUCTION (SI)

One of the best ways to learn course concepts is to study with a group of other students. The Supplemental Instruction Program provides such study sessions for challenging courses. In the sessions, the group leader helps students to learn course concepts and, at the same time, to increase their skills in reading, studying, and critical thinking. For a list of Supplemental Instruction study groups, contact the Learning Assistance Center.

## LEARNING DISABILITIES PROGRAM

The Learning Disabilities Program offers diagnostic, educational, and consultative services to students with learning disabilities. Diagnostic testing is available for students who may have a learning disability. Testing procedures identify individual learning styles, including strengths and weaknesses. Educational services provide students with recommendations for academic accommodations and specific learning strategies to meet individual needs. Referrals are also made to other appropriate campus services such as the



Learning Assistance Center, Student Support Services or the Counseling and Student Development Center. The Learning Disabilities Program provides consultative services to faculty/staff, tutors, and community organizations involved in the education of students with learning disabilities.

## **SUPPORT SERVICES FOR DISABLED STUDENTS**

**Coordinator, Bruce Pomeroy**  
**Student Support Services Program**  
**Library, Room 101**  
**Telephone 778-5150**  
**TDD/TTY 778-5234**

In addition to regular student services on campus, disabled students entering college may receive special assistance. The office for differently abled students offers additional help in achieving educational goals.

Such services as interpreters, readers and notetakers are available, and adjustments for program accessibility like re-scheduling classes and elevator use are also arranged. Through the Student Support Services Office in the Learning Assistance Center, students may use various aids including the Visualtek Machine, talking calculators, a Kurzweil machine, large print reading materials and taped books.

Broome Community College is committed to meeting the support needs of its disabled students. However, auxiliary services such as notetakers, taped books, and special testing provisions require advanced planning to be implemented as smoothly as possible. The College urges any student who has need of educational support services to give the Coordinator for Disabled Student Services as much advance notice as possible. This will allow Broome Community College to have quality support services in place in time for the student's needs. Phone 778-5234 (TTY), or write Student Support Services c/o Broome Community College.

In order to avoid duplication of services and to assure that disabled students at Broome Community College receive all the auxiliary aids for which they qualify as speedily and as efficiently as possible, the College requires that any disabled student who is to receive specialized college assistance attempt to enroll with appropriate federal and state agencies (e.g. VESID, the Commission for the Blind, and the Veterans' Education Assistance Agency). The Coordinator for Disabled Student Services is available to assist any student in applying to state and federal agencies.

A booklet describing supportive services is available from the Student Support Services office. This booklet is also available on audio tape.

## **STUDENT SUPPORT SERVICES PROGRAMS**

With an open door admissions policy, Broome attracts many students with varied needs. The Student Support Services Program provides assistance to a percentage of these students who have experienced difficulty in achieving academic success. The program is aligned under the Academic Affairs Division and works closely with the Learning Assistance Center.

The Student Support Services Program provides a variety of support services to students who qualify. These services include: academic advisement, tutorial assistance, diagnostic test interpretation, transfer information, referrals, notetaking and reading services for the handicapped, a peer counseling program, and other student services.

The office is located in the library, Room 101, and is open from 8 a.m. to 5 p.m. Phone number 778-5150, 778-5234 (TTY/TDD).

## **LEARNING RESOURCES CENTER (LIBRARY)**

The Cecil C. Tyrrell Learning Resources Center was constructed in 1967-68 and named after the College's founding president. The building is an attractive, three-story structure which houses the Learning Resources Center (LRC), the Learning Assistance Center, as well as offices and classrooms.

The Learning Resources Center (LRC) provides the resources and services to meet the informational and instructional needs of BCC students, faculty, and the broader college community. Its primary function is to support and supplement the academic programs of the College and to provide a center for serious study, research, and learning.

The LRC integrates a variety of print and nonprint materials with the necessary services and equipment to enhance their use. The print collections consist of nearly 65,000 books, 500 periodical titles, and over 10,000 pamphlets. The nonprint collection includes 1500 video and 16mm titles and 1400 titles in other audiovisual formats. To enhance access to these materials, the LRC provides print and electronic indexes to periodicals and a computerized card catalog.

To ensure access to books and magazine articles not owned by the College, the LRC participates in various local, regional, state, and national reciprocal access and borrowing agreements. LRC staff may request specific books or articles from other libraries through interlibrary loan. In addition, the LRC maintains listings of other area libraries' periodical holdings where students may have direct access to their collections and provides logon access to the internet.

LRC facilities include individual study carrels and small group study rooms. Individual audiovisual viewing stations include videocassette viewing, sound slide use, audiocassette listening, and public

## **TDD/TTY TELEPHONES**

TDD/TTY telephone units are available in many campus offices: The Student Support Services Office (778-5234), Counseling and Student Development Center (778-5210), Admissions (778-5001), Student Accounts (778-5230), Registrar's Office (778-5027), and The Little Theatre (778-5191) are equipped with TDD/TTY units. Coordinator of Interpreting Services (778-5398).



access computer stations. Public access typewriters, microform reader/printers, drafting tables and photocopiers are also available.

A staff of professional, technical and clerical specialists offers a broad range of services including lending of materials, information services, assistance with research techniques, instruction in the use of materials and equipment, audiocassette duplication, and interlibrary loan.

Most materials may be borrowed for use outside the LRC, although restrictions are placed on reference and reserve works. The basic loan period for books is 14 days, and for videocassettes, seven days.

LRC cards may be obtained at the Circulation Desk by completing a BCC/LRC Registration Form and presenting identification with proof of current address, preferably a driver's license. Failure to return borrowed materials promptly upon notice can result in withholding of grades, transcripts, and other services as well as collection fees. The borrower is responsible for all materials charged out on his/her card.

The LRC is open for service during the following hours:

### **Fall and Spring Semesters**

Monday-Thursday .....	7:30 am to 10 pm
Friday .....	7:30 am to 5 pm
Saturday .....	12 noon to 5 pm
Sunday .....	4 pm to 10 pm

### **Summer Session**

Monday-Thursday .....	7:30 am to 10 pm
Friday .....	7:30 am to 5 pm

### **Holiday and Intersession**

As posted.

The LRC is closed on all days that the College is officially closed.



# PART TIME STUDIES

Anyone in the community may enroll as a part-time student and BCC attracts a large number each year. The part-time enrollment accounts for almost 50% of the student body. These are mostly "non-traditional" students, men and women who also work full time. The College has a strong commitment to serving the part-time student.

## PART-TIME STUDENTS

Part-time students are those who take fewer than 12 credits per semester, usually one or two courses. At BCC, part-time students can:

- Enroll in credit courses, or non-credit mini courses.
- Take day, evening or weekend courses.
- Attend classes in the fall, spring or summer semester.
- Earn a degree or not, as they see fit. Certificate programs are available.
- Apply for financial aid if carrying 6 or more credits.
- Receive academic advising and personal counseling
- Borrow books from the College library.
- Receive Veterans' benefits.
- Transfer credits to BCC earned at another college.
- Participate in the College-on-the-Weekend Program.

### NOTE:

The College conducts a special Information Session for new part-time students to inform prospective students how to get started at BCC, what programs are available, and how to register. Contact the Office of Student and Community Relations at 778-5199 for further details.

Part-time students seeking degrees are required to complete the College's General Education Program. Refer to page 25 of this catalog, and seek guidance from your academic advisor or the Advisement Center in Wales 115.

## ADMISSION

To be admitted to a degree program at the College, all students, including part-time day and evening students, must submit an admissions application form to the Admissions Office (Wales, Room 102). Refer to page 8 of this catalog for admissions procedures.

Although part-time students can take courses without being admitted, it is generally in the student's best interest to seek admission early in their studies. This will ensure more accurate and comprehensive advisement. Also, financial aid programs require formal admission to a degree program.

## PLACEMENT TESTS

Part-time students are required to demonstrate basic skills competency for college level work. All matriculated students – those who are officially enrolled in a degree program – are required to take placement tests in reading, writing, and mathematics. The scores from the tests are used together with high school records to place students in courses where they will have the best chance to succeed. Contact the Learning Assistance Center (778-5038) or your advisor for testing information.

## REGISTRATION

First-time students and continuing students may register in person or by mail. After posted billing dates, only in-person registrations are accepted and payment must be made at the time of registration.

## CONTINUED ENROLLMENT

Those who are continuing their studies at the College as degree candidates should keep in contact with their academic advisors and follow the individual outline for their program of study. If one does not attend for a full semester or longer, and wishes to resume a program of study, he/she must reapply through the Admissions Office. The student must consult an advisor on current requirements and changes if any exist for the program.

Continuing students have the opportunity to advance register for subsequent semesters, thereby affording them a better selection of courses.

## RESIDENCY CERTIFICATE

See Page 10.

## MMR IMMUNIZATION REGULATIONS

See Page 8.

## GENERAL EDUCATION REQUIREMENTS

See Page 25.

## TUITION

See Pages 10 and 11.

## ADVISEMENT

Academic advisement is available for all Broome Community College part-time and evening students through the Advising Center located in Wales 115. Academic advisors for each department are available during scheduled day and evening hours to accommodate student inquiries. Contact the Advising Center to make arrangements for individual advisement sessions. Counseling services are also available Monday through Thursday evenings in the Wales Building, Room 200.

## FINANCIAL AID

**FINANCIAL AID** is available to part-time students who take 6 or more credits and enrolled in a degree or certificate program. Many companies have tuition reimbursement plans, and employees should familiarize themselves with their company's policy. The College has a Financial Aid office in the Student Affairs Bldg., Room 213 to answer questions about this. If one's company is paying, a letter to that effect should be brought to Student Accounts when the bill is due.

## DECLARATION OF GRADUATION CANDIDACY

Students intending to complete all degree requirements within a given semester are required to declare their intention to do so by filing an "Application for Graduation" with the Office of the Registrar.

Applications for Graduation should be filed by:

Spring Semester – March 14th  
Summer Semester – July 15th  
Fall Semester – October 15th

Students filing after these dates will be considered as graduates for the semester but may not receive their diploma in a timely fashion or have their name indicated in the Commencement Booklet (Spring semester). **No application for candidacy will be accepted after the last day of classes of the term being applied for.** Students applying after that date will be considered as a graduate of the following semester.

## GRADUATION

See page 28.



# ACADEMIC POLICIES

## THE ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS)

This degree is awarded to graduates of curriculums in these fields of study.

Accounting  
Administrative Assistant  
Chemical Engineering Technology  
Early Childhood  
Civil Engineering Technology  
Computer Information Systems  
Computer Technology  
Criminal Justice-Police  
Dental Hygiene  
Electrical Engineering Technology  
Executive Secretarial  
Fire Protection Technology  
Hotel/Restaurant Management  
Individual Studies  
Industrial Technology  
Marketing/Management  
Mechanical Engineering Technology  
Medical Assistant  
Medical Laboratory Technology  
Health Information Technology  
Nursing  
Paralegal  
\*Physical Therapist Assistant  
Records/Information Management  
\*Radiologic Technology  
Travel & Tourism

### Curriculum Requirements

- The minimum number of credits in a student's major field as determined by each academic department. These are courses intrinsic to and required by the various curriculums.
- A minimum of 20 credits in Liberal Arts and Sciences courses will include:
  - Social Sciences: a minimum of 6 credits including 3 in designated citizenship-related courses
  - Natural and Physical Sciences (including mathematics): a minimum of 6 credits
  - Humanities: a minimum of 6 credits in designated English courses
  - Two writing emphasis "W" courses
  - Satisfaction of General Education requirements. See page 25.
- Satisfactory completion of all courses in a curriculum or as approved in a department.
- \*d. Summer clinical experience required for graduation in curricula noted.

## THE ASSOCIATE IN ARTS DEGREE (AA)

This degree is awarded to graduates in the Liberal Arts and Related Careers curriculum.

### Liberal Arts and Related Careers requirements are distributed as follows:

- English: 12 credits, including ENG 110, 220, and two LIT electives.
- History: a minimum of 6 credits including HIS 115.
- Humanities: a minimum of 6 credits (6 in Philosophy or 6 in a foreign language).
- Mathematics: Students who have completed fewer than 3 units of secondary school mathematics (through 11th year math) are required to take two semesters of college level mathematics. Students who have completed 3 units of secondary school mathematics (through 11th year math) are required to take one semester of college level mathematics. Students who have completed more than 3 units of secondary school mathematics (including 11th year math) are not required to take additional mathematics. They may, however, elect an appropriate math course or an elective in another field.
- Natural and Physical Sciences: a minimum of 8 credits.
- Social Sciences: a minimum of 6 credits including 3 in designated citizenship courses.
- Electives: 16 credits minimum. A maximum of 16 credits may be taken outside the offerings in Liberal Arts and Related Careers with the approval of the dean of the division.
- Completion of two writing emphasis "W" courses.
- Physical Education: 2 credits.
- Satisfactory completion of all courses in a curriculum or as approved in a department.

## DEGREE REQUIREMENTS FOR ALL STUDENTS

- Successful completion of all courses for the degree as contained in this Catalog.
- A 2.00 Cumulative GRADE POINT AVERAGE in those courses applicable to the degree.
- Filing of an Application for Graduation in the final semester.
- Recommendation of the faculty for the awarding of the degree.
- Satisfaction of all obligations to the College.
- Specific Curriculum Requirements.
- Satisfaction of General Education Requirements (see page 25).

## THE ASSOCIATE IN SCIENCE DEGREE (AS)

This degree is awarded to graduates of the Business Administration, Computer Science and Engineering Science programs and to Individual Studies, Communications and Media Arts, and Science Option graduates in Liberal Arts and Related Careers.

### A.S. Curriculum Requirements:

- At least 30 credits in the humanities, natural sciences, mathematics, and social sciences.
- Physical Education — 1 credit for Business Administration, Computer Science and Engineering Science students only. — 2 credits for Special Careers and LARC students.
- Two writing emphasis "W" courses.
- Satisfaction of General Education requirements.





## GENERAL EDUCATION: COMMON REQUIREMENTS

As part of its commitment to provide every graduate with the skills and knowledge essential for a full and productive life, Broome Community College has developed an integrated program of general education for every course of study. General Education's aims are to acquaint students with the concerns and obligations common to all citizens of a democratic society, and to equip them with the intellectual skills and dispositions to participate effectively in all aspects of human endeavor.

Broome Community College's General Education program strives to ensure that each graduate will:

1. Communicate effectively orally and in writing.
2. Think clearly and critically.
3. Become sensitive to the ethical dilemmas of daily life and experienced in moral reasoning, discourse, and judgment.
4. Embrace one's civic obligation to be informed about and participate in public affairs.
5. Acquire a global outlook and appreciation of human and cultural diversity.
6. Gain facility in quantitative analysis, and acquire knowledge of scientific and technological concepts, procedures, achievements and concerns.
7. Understand and apply the elements of good health and physical fitness.

These goals are pursued in a variety of contexts: in courses which all students are required to take such as ENG 110 and writing emphasis ("W") courses, in a range of social science and humanities courses, in mathematics and science courses, and in technical courses in business, health sciences, and technology.

Listed below are the specific General Education requirements with the seven objectives preceding shown in parentheses and in priority order.

- English 110 ..... (Objectives 1,2)
- Two writing emphasis  
"W" courses ..... (Objectives 1,2)
- English 220† ..... (Objectives 1,3,2)
- Two Social Science courses.  
One of these must be from a  
designated "civic education"  
list\* ..... (Objectives 4,5,2,3)
- Mathematics and science courses  
per curriculum  
requirements ..... (Objectives 6,2,4)
- Physical education requirements  
per curriculum‡ ..... (Objective 7)

† Engineering Technology students take ENG 150. Medical Laboratory Technology students will substitute a designated LIT course for ENG 220 and fulfill writing requirements through special arrangements.

\* ECO 111, HIS 130, POS 201/204, SOC 111, SOS 111/120/290

‡ Students in transfer curricula must select at least 1 of their 2 PED credits from: PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 148, 173.

**These General Education requirements are built into the degree programs which are displayed on pages 37-82. However, students are responsible for making sure that they have met General Education requirements for the AA, AS, and AAS degrees. For further information students should seek assistance from their advisor and/or chairperson and dean.**

### WRITING EMPHASIS "W" COURSES

Approximately fifty (50) courses have been designated "writing emphasis" ("W") offerings. In these courses writing about the subject matter being studied is an integral part both of the learning process and the course objectives. To fulfill General Education requirements, students must complete 2 writing emphasis ("W") courses. These "W" courses are to be taken after completing ENG 110 and before enrolling in ENG 220. Students should consult the Master Schedule at each registration period, as well as their advisors, in choosing "W" courses.

### CREDIT EQUIVALENT

Some courses at Broome Community College carry "credit equivalents." This means that they do not give a student credit toward a degree at the College, but they are equivalent to the appropriate number of credits for one's academic load. This credit load is used, to cite some examples, for determining a student's status as full-time or part-time, for financial aid, for billing, and for academic standing. Courses carrying these credit equivalents fall in the 090 numbering series. Examples are: ENG 090 Basic Language Skills; MAT 090 Arithmetic and the Language of Algebra; RDG 090 Reading Fundamentals; RDG 092 College Preparatory Reading. (See Developmental Courses on page 21.)

### INDEPENDENT STUDY

Many academic departments of the College offer "Independent Study" courses which are arranged between an individual faculty member and a motivated student. The student has the responsibility to make appropriate arrangements with a faculty mentor and to secure the permission of the department chairperson before registering for independent study.

A student may not take more than one Independent Study course per semester. Independent Study courses are not intended to replace regular courses which the student was unable to schedule or which he/she did not complete. Rather, these courses provide an opportunity for the serious student who desires to expand his academic background beyond the scope and the depth usually found in a regular course. (See course description section for offerings.)





# POLICY OF STANDARDS FOR ACADEMIC PROGRESS

In order to be in good academic standing and to be making academic progress toward a degree or certificate, a student must meet a minimum cumulative grade point average and successfully accumulate credits according to the following standards.

## 1) GRADE POINT AVERAGE

Credits Attempted	Minimum Cumulative GPA
12-20	1.50
21-40	1.75
41-upward	2.00

## 2) SUCCESSFUL ACCUMULATION OF CREDITS

Students must successfully pass ("D" grade or better) a total number of credits according to the following standard:

Credits Attempted	Credits Completed
20	12
40	24
60	36
80	48
100	60

By the time a student has attempted 20 credits, he/she must have successfully completed 12 credits. Likewise, 40 credits trigger the 24 credit minimum requirement.

## PROBATION

Students records will be reviewed at the end of each semester by the Registrar. Students who have not met the minimum standards will be placed on probation. A student will have one semester to achieve the minimum standards before facing dismissal. During this probationary time, the student is expected to remain in contact with his/her advisor, department chairperson or division dean.

**CONTINUED PROBATION:** If a student achieves a 2.00 semester grade point average but fails to satisfy the accumulation of credits requirement and/or meet the required cumulative GPA, he/she will be given an additional semester of probation if they meet the following criteria. Once on probation or continued probation, a student must have a semester GPA of 2.00 or greater; and have completed at least 50% of the attempted credit hours for the term. Students who fail to do so will be dismissed from the College.

**DISMISSAL:** If a student does not meet the minimum standards during the probationary semester, the student will be dismissed from the College after the probationary semester. Notification of dismissal will be sent by the College Registrar.

**ATTENDANCE AFTER DISMISSAL:** To continue in attendance, a dismissed student must submit a **Petition for Academic Reinstatement** to his or her Divisional Dean. Petitions can be obtained from the Dean's Office. Based on a review of the student's academic record and

discussions with the student, the Dean will determine the student's status as follows:

**(1) WAIVE DISMISSAL:** Verified medical, psychological or personal reasons directly contributing to the student's academic failure may be considered by the divisional dean for a waiver of dismissal. This requires a petition to the Dean. Only one petition of waiver of academic dismissal based on extenuating circumstances is allowed during a student's academic career at Broome Community College.

The student will remain on probation after receiving a waiver and will be expected to obtain a 2.0 semester grade point average. Failure to obtain a 2.00 GPA will result in academic dismissal.

To be eligible for financial aid, students are allowed only one academic reinstatement due to unusual circumstances during their academic history at BCC. The student will remain on probation after receiving a waiver and will be expected to obtain a 2.0 semester grade point average.

**(2) PART-TIME ENROLLMENT:** If a student cannot present sufficient information to be granted a one-time waiver, they may continue in the next semester on a part-time basis if approved by the Dean. Although allowed to continue in his/her program, the student is not in good academic standing and may not qualify for financial aid assistance.

The intent of allowing such part-time enrollment in an approved course of study is to allow the student the opportunity to complete a successful semester. The student will remain on probation and will be expected to obtain a 2.0 semester grade point average. Financial Aid will not be reinstated until the student attains good academic standing.

**(3) DENIAL OF PETITION/LEAVE OF ABSENCE AND READMISSION:** The Divisional Dean may deny the student's petition and recommend that the student refrain from registering for one or more academic terms. If the Petition for Reinstatement is denied, the student may not attend as a matriculated student.

**RETURN TO FULL-TIME STATUS OR GOOD ACADEMIC STANDING:** Students permitted to attend on a part-time basis may return to probationary standing by completing two courses (5 to 9 credit hours and/or credit equivalents) and obtaining a "C" grade or better in all courses taken. The part-time student who successfully achieves the "C" grades in those courses approved by the Dean will be allowed to return to full-time status in the subsequent semester. The student will, however, remain on probation until the cumulative GPA and credit accumulation standards have been met. Financial aid will be reinstated while the student remains on continued probation working toward good academic standing.

## DISMISSAL, READMITTANCE FOR DEGREE PROGRAMS

This policy applies to the following 11 programs – Dental Hygiene, Engineering Science, Medical Assisting, Medical Laboratory Technology, Nursing, the Office Technologies curriculums of Executive Secretary, Office Services Assistant, Word Processing and Office Technologies Certificate, Physical Therapist Assistant, and Radiologic Technology.

A student must demonstrate discernable progress toward the achievement of a degree in a given program of study. If a student fails one or more introductory courses in a major sequence, as determined by the department, he/she may be dismissed by the department from that program of study – but not necessarily from the College.

To be considered for readmission to the program the student must meet with the appropriate Department Chairperson who will make the determination. Students must also meet with a counselor so that a program of assistance may be established by the counselor. In the case of programs that have limited space for freshmen, the Admissions Office shall notify the student of his/her readmittance into the program and adjust accordingly the number of spaces available for new freshmen. A maximum of 10% of the total number of available spaces for freshmen in a program may be used for readmitted students.

## ATTENDANCE REGULATIONS

Colleges throughout the nation have found that students who regularly attend classes have a better success record than students who do not regularly attend classes. With the intent of encouraging student success, BCC strongly urges students to regularly attend their classes. In fact, the College's policy is that a student is expected to come to all class sessions prepared to participate in an appropriate manner. Absence from class is considered a serious matter and never excuses a student from classwork. A student must complete all assignments, examinations, and other requirements of any course to receive credit.

The College understands, however, that students sometimes through uncontrollable circumstances, are absent from classes. In these cases, the students need to meet with their instructors to discuss missed work.

## SPECIFIC RESPONSIBILITIES

**STUDENT RESPONSIBILITY:** Class attendance is a measurable commitment by the student toward meeting individual responsibility for his/her own education. Should a student miss a class, it is the student's responsibility to make up any work regardless of reason for absence. Students should work with the instructor and/or the Counseling and Student Development Center to help resolve reasons for absences.



**Instructor Responsibility:** Each instructor is responsible for relating the significance of attendance to the course objectives and to inform the students of this significance in the first class meeting. When absences occur, instructors are encouraged to discuss reasons with the student. If the reasons are beyond the student's control, instructors are encouraged to discuss with the student ways to solve the problem, including referral to the Counseling and Student Development Center.

**Department Responsibility:** Within the spirit and framework of College policy, each department may develop its own guidelines to meet its needs. Such guidelines are subject to the approval of the Vice-President for Academic Affairs. NOTE: Some developmental courses have strict attendance requirements, whereby students may be deregistered from the class for poor attendance. This deregistration may result in a loss of financial aid. The consequences of this may necessitate that the student return financial aid monies to the College. Consult course outline and/or instructor for further details.

## DEREGISTRATION FOR NON-ATTENDANCE

The College reserves the right to administratively deregister a student for a course(s) based on lack of attendance as reported by the instructor of the course on the Official Section Attendance Sheet. Students who have never attended the section or have not attended after the census date (first day of the fourth week of classes for full-term courses) will be deregistered from the course by the Registrar's Office and notified of this action which may result in a loss of financial aid.

## ACADEMIC REGULATIONS

### GRADING INFORMATION

The grading policy described below has been adopted by the College commencing with the Fall 1992 semester. Grades earned by students at the College prior to that date will remain as recorded. (From Fall 1979 through Summer 1992 the College utilized a grading system of A, B, C, D, and F excluding plus or minus grades on a 4.0 quality point scale.)

Grades	Honor Points Per	Explanation
A	4.0	Outstanding achievement of course objectives
A-	3.7	
B+	3.3	
B	3.0	Significant Achievement
B-	2.7	
C+	2.3	
C	2.0	Satisfactory Achievement
C-	1.7	
D	1.0	Minimal Satisfactory Achievement
F	0.0	Failure to meet course objectives or dropped after 10th week
S	—	Satisfactory
U	—	Unsatisfactory
W	—	Withdrawn from a course between the 5th and 10th weeks inclusive (See "W" Grade below)

I	—	Incomplete due to special circumstances (See "I" Grade)
IP	—	"In Progress"-for courses in which student is permitted more than one semester to complete
AU	—	Audit
T	—	Transfer credit from an accredited college

### "S" "U" AND "IP" GRADES

The S or U grade and IP grade will apply only to specific courses determined by the appropriate departments and approved by the Vice-President for Academic Affairs. Such courses will not affect the Grade Point Average (GPA) and may not be used in the determination of honors.

### "W" GRADE

It is the student's responsibility to initiate action to receive a grade of W between the 5th and 10th weeks inclusive. If no action is taken before the 11th week and the course is dropped, an F (or U) will be entered on the transcript. For less than full semester courses, a proportional time to withdraw with a "W" grade will be determined. For example, 71/2 week courses, an F (or U) will be entered on the transcript if the course is dropped after the 5th week. For 5-week modules an F (or U) will be entered on the transcript if the module is dropped after the 17th class. Students who withdraw from a class may not continue to attend that class.

### "I" INCOMPLETE GRADE

The "I" or Incomplete grade should only be assigned in situations beyond the student's control, such as personal/family illness, crisis, or other extenuating circumstances.

A student **must** request an "I" grade from the instructor prior to the submission of final grades.

If the instructor believes that an "I" grade is merited, the student and the instructor will complete a contract. The contract will delineate work to be completed and time frame not to exceed six (6) months.

The instructor will forward a copy of the contract to the Office of the Registrar along with the final grade sheets.

After the student has completed the work, the instructor will submit a Notification of Grade Change Form to the Registrar for removal of the "I" grade. If the student does not meet the time limit, the Instructor shall direct the Registrar to record the appropriate grade.

When the Registrar's Office is not notified by the instructor regarding a grade change and there is no contract on file, the Registrar's Office will convert "I" grades to "F" or failing grades at the end of the next subsequent semester.

An instructor submitting a grade change for an "I" grade which has been converted to an "F" must follow the regular grade change provisions. A grade change submitted one year or more after the course has ended must have approval of the Department Chair, Divisional Dean, and VPAA.

### IN PROGRESS GRADES

Developmental Courses allow the assignment of an "IP" or In Progress grade when the course

may require more than one semester to repeat. The student must re-register for the course. When the course is completed, the student will receive the grade assigned (generally an "S" or "U" in the last semester and the prior "IP" grades will be retained).

If the "IP" is not completed (the student does not re-register or leaves the institution), the former "IP" grade will be changed to a "U" at the beginning of the first semester (Spring or Fall only) in which the student has not re-registered for the course.

A student can receive the grade of "IP" only four times for a given course. Students should note, however, that constant repetition of developmental courses may endanger their receipt of aid from the New York State Tuition Assistance Program (TAP) and other forms of financial aid.

### AUDIT

The term "Audit" shall not be considered a grade but an "opportunity." For persons auditing a course, the letters "AU" will appear next to the course name on the transcript with a message statement explaining the meaning of the designation.

Students are encouraged to use the option of taking courses on an audit basis. A student may not receive credit for it later, unless he/she re-registers in the course or challenges it according to the existing rules for credit-by examination.

Students who register in a course for audit are expected to have the necessary prerequisites. In this respect students are encouraged to make full use of the College's counseling services, but the ultimate decision whether or not to enroll for audit shall be the student's responsibility.

Consideration may be given to a student's request for transfer from credit to audit status or vice versa. The end of the third week of classes is the deadline for such transfer.

Full-time students may audit courses with no additional charge, but they need approval of their department chairperson. For part-time students, the regular tuition schedule applies (see page 10). New York State residents who are 60 years of age or older may audit courses without charge on a space available basis.

### REPEATING COURSES

Permission of a student's department chairperson or dean is required in order to repeat a course (passed or failed) more than once. All grades remain on a student's transcript. If a course is repeated, the higher grade will enter into the cumulative G.P.A.

If a required course is failed, the department or the dean may allow the student to substitute an equivalent or similar course, rather than repeat the failed course. In such cases the higher grade will enter the cumulative grade point average.

A course in which a grade of "W" was received during a previous semester is not considered a repeat.

Students repeating a course they have already passed (a "D" grade or better) should be aware that they may not be able to use that course as part of their calculation for full-time status for certification under the New York State Tuition Assistance Program (TAP). Students receiving TAP who will be repeating a passed prior course should check with the Office of the Registrar before the semester begins.



## CHANGING CURRICULUM

Any student wishing to change curriculum may request a Change of Curriculum Form from the Registrar's Office. It must have the approval of the new division dean/designee or department chairperson and the signature of the current division dean/designee or department chairperson.

The Change of Curriculum Policy is administered under the following criteria:

1. All previous courses and grades will remain on the permanent record.
2. The academic standing of the student at the time of the Change of Curriculum will be maintained. For example, a student on probation at the time he or she applied for the change will remain on probation. Students who have been dismissed must file a petition with the dean of the division which sponsors the new curriculum.
3. The student will be bound by the graduation requirements of the current catalog at the time of the curriculum change.

## FRESH START

Any student absent from Broome Community College for two or more consecutive years, may return and obtain a "fresh start."

Under this procedure, a student will receive credit and retain on his/her transcript the grades for all courses previously passed with a grade of "C" or above, but these grades will not be calculated in the student's GPA. A student will receive no credit for courses in which he/she received a "C-" or below prior to the absence. All courses and grades will remain on a student's transcript.

Following the granting of a "fresh start," a minimum of twelve (12) credits must be completed before the student will be eligible for graduation.

If the student has been academically dismissed prior to their return under the "Fresh Start" policy, they will be considered on probation upon their return and must achieve a 2.0 GPA to return to good standing. Failure to do so will result in academic dismissal from the College.

This policy may be applied only one time per student. When a "fresh start" is granted, the following notation will be made on the student's transcript:

"Student Granted Fresh Start"

To initiate a fresh start, students may obtain a request for such action from the Registrar's office.

## GRADE POINT AVERAGE

Each grade carries a specified number of honor points — 4.0 for an A, 3.7 for an A-, 3.3 for a B+ — as described in the section on Grading Information. To determine one's grade point average, multiply the number of honor points earned, according to the letter grade, by the number of credits for the course. Add these together and divide the sum by the total number of credits.

A grade point average (GPA) is calculated for each semester the student attends and a cumulative summary is also shown on the student's grade report and academic transcript.

For purposes of graduation eligibility, only those courses required for the degree will be used to determine if the criteria for a 2.0 in courses applicable to the degree has been met. This calculation will reflect the Program grade point average in the student's field of study and will be fixed as of graduation. Any courses taken after

that will not change the graduation GPA and will not be entered into the previous GPA in any way. The cumulative GPA, however, will reflect all courses taken by the student unless a course has been repeated or removed from the calculation by a Department Chair and/or advisor.

## SEMESTER CREDIT OVERLOAD

During the Fall and Spring semesters a student may not enroll (register) for more than 20.5 credits without approval from their Divisional Dean.

During the Summer semester, a student may not register for more than 6.0 credits in any one summer term or take more than 12.0 credits for all summer terms without permission from their Divisional Dean.

## PRESIDENT'S LIST AND DEAN'S LIST

Full-time students who have a semester grade point average 3.80 or better will be named to the President's List. Such students must successfully complete a minimum of 12 credit hours. **Courses which use the S or U or credit equivalent grade may not be among the 12 hours.**

Full-time students who have a semester grade point average between 3.50 and 3.79 inclusive will be named to the Dean's List. Such students must successfully complete a minimum of 12 credit hours. **Courses which use the S or U or credit equivalent grade may not be among the 12 hours.**

Part-time students can earn a place on the President's or Dean's List by having the appropriate cumulative grade point average for their most recent semester that include at least 12 credit hours. **Courses which use the S or U credit equivalent grade may not be among the 12 hours.** Part-time students should contact the Registrar's Office if they have the appropriate grades.

## GRADUATION WITH HIGH HONORS OR HONORS

Students who graduate with a program grade point average of 3.80 or better will receive the distinction of graduating with "High Honors" and those who graduate with a program grade point average between 3.50 and 3.79 inclusive will graduate with "Honors."

## STUDENT CHEATING

An instructor has the prerogative of failing a student who has cheated on an exam, quiz, paper, project, report, etc. for that exercise only. Students who cheat a second time risk failure for the entire course and additional disciplinary action, including the possibility of dismissal from college.

## STUDENT ACADEMIC APPEAL PROCEDURE

Broome Community College has established a procedure to provide students an opportunity to appeal grades in any particular course(s) or academic dismissal. Copies of the Student Academic Appeal procedure are available in the offices of the Divisional Deans, and the policy also appears in the Student Handbook.

## WITHDRAWAL FROM THE COLLEGE

Broome Community College has committed itself to a philosophy of providing whatever assistance is necessary to aid the student in completing his/her academic goals. Students are strongly encouraged to seek academic and personal counseling prior to any withdrawal.

Students who decide to withdraw from the College must obtain a signed drop form from their department and complete a withdrawal form. The withdrawal form is available in the Counseling Center. Failure to comply may cause the individual to lose any possible refund fees or negatively impact future financial aid resources.

## LENGTH OF CURRICULUM

Most associate degree programs are designed to be completed in two years. The college year is divided into two semesters of 15 weeks each plus an evaluation week. Some students may choose or be required to take more than four semesters to earn their degrees. Radiologic Technology students, for example, have special clinical laboratory experiences in the summer of both their freshman and senior years.

## LATE REGISTRATION POLICY

Late registration for credit courses will be permitted through the Friday of the first week of classes (each semester/summer term). To be registered is distinct from changing a student's course schedule through the drop/add process.

## WITHHOLDING OF GRADES AND DIPLOMAS

Student's Official College Transcript and diploma will be withheld if there are outstanding financial or property-returning obligations. These could be to such College offices as Security, Learning Resource Center (Library), Student Accounts, Physical Education, as well as others. Students must settle any such outstanding debts to the College and then present evidence of the settlement to the Office of the Registrar.

## DECLARATION OF GRADUATION CANDIDACY

Students intending to complete all degree requirements within a given semester are required to declare their intention to do so by filing an "Application for Graduation" with the Office of the Registrar.

Applications for Graduation should be filed by:

Spring Semester — March 14th

Summer Semester — July 15th

Fall Semester — October 15th

Students filing after these dates will be considered as graduates for the semester but may not receive their diploma in a timely fashion or have their name indicated in the Commencement Booklet (Spring semester). No application for candidacy will be accepted after the last day of classes of the term being applied for. Students applying after that date will be considered as a graduate of the following semester.



## GRADUATION

Broome Community College will conduct one formal graduation ceremony each year in the spring. All candidates for degrees may participate in the ceremony. A candidate is a student who will complete his/her degree requirements at the conclusion of the spring or summer semester. Candidates must have filed their "Application to Graduate" and have been recommended as candidates by the chairperson of their academic department. Students who complete their degree requirements at the end of the fall semester will be invited to attend the next graduation ceremony.

## ABSENCE DUE TO RELIGIOUS BELIEFS

Section 224-a of the State Education Law reads:

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he is unable, because of his religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.

2. Any student in an institution of higher education who is unable, because of his religious beliefs, to attend classes on a particular day or days, be excused from any examination or any study or work requirements.

3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which he may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

4. If classes, examination, study or work requirements are held on Friday after 4 p.m. or on Saturday, similar or makeup classes, examinations, study or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study or work requirements held on other days.

5. In effectuating the provisions of the section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section.

6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his rights under this section.

6-a. A copy of this section shall be published by each institution of higher education in the catalog of such institution containing the listing of available courses.

7. As used in this section, the term "institution of higher education" shall mean schools under the control of the Board of Trustees of the State University of New York or of the Board of Higher Education of the City of New York or any community college.

## RETENTION

The College has been conducting an on-going study to determine how many of its students eventually graduate either from Broome or other colleges to which they transfer.

Early indications show that the number of students completing academic programs at Broome is steadily rising. In recent years, the graduation rate is estimated to have exceeded 50%, covering all programs. In some fields, especially the engineering technologies, the graduation rate appears to be greater, reaching as high as 65% to 70% of the entering class.

Another survey of students receiving financial aid was completed in Spring 1984 with 65% of students graduating from all programs.

## EDUCATIONAL RIGHTS AND PRIVACY ACT (BUCKLEY AMENDMENT)

The Family Educational Rights and Privacy Act of 1974, as amended, establishes specific rights for students and/or their parents and prevents the release of certain information without the written consent of the student. Generally, this federal law gives students, former students, and alumni the right to review, in the presence of college personnel, their own personal records maintained by the college, including academic and financial records.

Parents of dependent students, as defined by the Internal Revenue Service, may have access to the college records of their dependent sons or daughters without student consent. Parents do not have the right to see records of children who are no longer dependent upon them.

At Broome Community College the repository for student records is the Office of the Registrar (Wales 206). This office is open weekdays from 9:00 a.m. to 5:00 p.m.

In keeping with the spirit of Section 438 of the Act, the Registrar has been appointed as Records Access Officer. The following procedures have been developed for the benefit of the student and eligible parent:

1. a. A student in attendance at Broome Community College shall, upon written application, be able to view his/her educational records at the Office of the Registrar within 45 days of the date of said application. This application is available in the Office of the Registrar.
- b. A parent or guardian of a student in attendance at Broome Community College, who claims a student as a dependent on his/her Federal Income Tax Form shall, upon proper presentation of the dependency condition, be afforded the same rights as set forth in Paragraph 1a.
2. Access to personally identifiable information about a student without the consent of the student may be provided by the College to the following individuals or agencies only:
  - a. School officials and professional employees of Broome Community College who have a legitimate educational interest.
  - b. School officials of educational institutions to which a student might transfer.
  - c. Authorized state and federal government officials of educational and funding agencies.

- d. Educational research agencies, with the provision that they release only non-personally identifiable data.
- e. Accrediting organizations.

### 3. Disclosure Without Approval of Student or Eligible Parent:

- a. Upon receipt of a Judicial Subpoena of the records of a student, a reasonable attempt will be made to notify the student or the parent of the existence of the order of the subpoena in advance compliance therewith.
- b. In the event of an emergency involving the health or safety of a student, the Registrar may disclose information to Federal or State Officials.
- c. Directory Information — The name of the student, full time or part time status, dates of attendance, and degree earned and date of graduation will constitute the total amount of information given to any individual making inquiry at Broome Community College, **unless the student or eligible parent refuses to permit the disclosure. The student or eligible parent must submit, within 30 days of this publication to the Registrar that such personally identifiable information is not to be designated as directory information with respect to that student.**

4. Broome Community College shall, on request, provide an opportunity for a hearing in order to challenge the content of a student's education records to insure that information in the education records of the student is not inaccurate, misleading, or otherwise in violation of the rights of privacy or other rights of students. The request for a hearing will be directed to the Registrar.



# STUDENT SERVICES

## EDUCATIONAL OPPORTUNITY PROGRAM (EOP)

The Educational Opportunity Program (E.O.P.), administered by the State University of New York and Broome Community College, is an academic and financial support program designed to provide assistance to students who have not had an opportunity to realize their academic potential.

To help students successfully complete college, E.O.P. provides tutoring, personal and academic counseling, success seminars and some financial assistance to help defray the cost of college.

All potential E.O.P. students must:

- Act on the desire to be in the E.O.P. by contacting the E.O.P. office.
- Qualify by meeting financial, as well as academic, guidelines.
- Be accepted into the E.O.P. by applying and providing appropriate documentation before the end of their first semester of college.

For further information, contact the E.O.P. office in the Athletic Suite-Student Center West (778-5220).

## STRIVE

The BCC STRIVE (Services and Training for Individuals in Vocational Education) Program is geared specifically to help low income men and women with dependent children who wish to return to school for vocational education.

We help students cope with the responsibilities of being both a parent and a student, plus help coordinate child care and transportation needs. Those interested in this program may contact BCC STRIVE Program, Room 101 Wales Administration Building or call 778-5350.

## LIVING ACCOMMODATIONS

The College has no dormitory facility and assumes no responsibility for student housing. As a service to students the Student Activities Office maintains an up-to-date record of housing accommodations which landlords submit as being available. Copies of the housing list may be obtained by contacting the secretary in the Student Activities office located in the Student Union. The listing is neither an approval nor rating by the College, nor will the College become a third party in any arbitration between students and landlords. Housing arrangements must be made directly by students and parents with local landlords.

## HEALTH AND WELLNESS CENTER

The College provides a Health Service which is available to all students at no additional charge for services rendered on campus.

Professional staff includes a part-time physician, clinic nurse, and health educator; clinic nurse is available during regularly scheduled classes in the fall and spring semester.

The Health and Wellness Resource Center is located in the Wales Administration Building, Room 103, and is open 8:00 a.m. to 5:00 p.m., Monday through Friday. All records are confidential, and information will be released only with the written authorization of the student.

### SERVICES:

- Ambulatory services for treatment of illnesses and injuries.
- Limited urgent care.
- Blood pressure screening
- Hepatitis B Vaccine (\$90\*)
- Measles, Mumps, Rubella (MMR) Vaccine (\$10\*)
- Tests for pregnancy, strep throat, diabetes, and urinary infections.
- Referrals to local physicians, specialists, clinics and hospitals.
- Tetanus and PPD-Mantoux injections.
- Education on diet, nutrition, fitness and weight management.
- Health and wellness programming.
- Insurance — Processing of accident insurance claims, as well as information regarding international student health insurance and optional sickness plan.
- Health counseling and assistance with personal and health problems with appropriate referrals within the college community.
- Immunization (measles, mumps, and rubella) certification.

(\*These charges are subject to change)

## COUNSELING AND STUDENT DEVELOPMENT CENTER

The Counseling and Student Development Center provides many services for students, whether they are enrolled full-time or part-time, day or evening. Specialized counseling is also available for the international, disabled, career undecided and academically dismissed students. All students can meet with counselors in a helpful and informal atmosphere as they seek to develop their potential, form realistic goals, and understand themselves emotionally and intellectually. The Center is equipped to help students:

- Understand their basic needs in terms of social, vocational and emotional adjustment to the college setting.
- Establish realistic educational goals and appropriate methods of achieving them.
- Assess their strengths and weaknesses to enable them to more effectively deal with academic and personal problems.
- Better understand their role and that of the College in the higher educational process.
- Obtain information about transfer and career opportunities, as well as assistance with academic problems.
- Grow in their personal development and determine appropriate values through instruction in human development courses.

The Counseling and Student Development Center, located on the second floor of the Wales Building, is staffed by professional counselors. The Center is open from 8 a.m. to 8 p.m., Monday through Thursday, and 8 a.m. to 5 p.m. Friday during the academic year. Students should become acquainted with the Center by stopping in at their convenience or calling 778-5210 for an appointment. A special brochure is available at the Center giving details about the service.

## CAREER AND LIFE PLANNING

Broome Community College offers an opportunity for students to explore interests, strengths and values in both an individual and group setting. Knowing as much as possible about oneself is the first step in understanding goals related to self fulfillment and to the world of work. The Counseling and Student Development Center can help in the process of self-evaluation and has information on career possibilities, audio-visual aids, testing procedures and techniques used in the process of exploring career fields and making career decisions. Counselors work closely with the College's advisors and Placement Center staff in offering students a comprehensive approach to career planning.



## PERSONAL COUNSELING

Counseling is available for students experiencing social, personal and family concerns. Counselors attempt to help students face problems with an holistic approach.

Counselors are available to discuss problems with drugs, alcohol, school, family, career, education, transfer and personal concerns.

Assistance is given in both direct and indirect ways, by exploring, understanding and dealing with tasks and crises related to the problems being experienced. Counselors may make referrals to appropriate community agencies, if that should be necessary and mutually agreeable. All counseling is strictly confidential.

## ACADEMIC COUNSELING

Counselors are available to help students put their academic efforts into the proper perspective by helping them to link their studies to personal and career goals.

## CAREER AND ACADEMIC ADVISING CENTER

The Career and Academic Advising Center is a student service designed to offer advising assistance to students that links academic advising, educational planning, and career development. Examples of specific types of services available to students through this Center includes help with course selection, explaining and verifying progress towards program and degree requirements, and serving as an information and referral center for students with questions and educational needs. Part-time students without an academic major, pre-health science students, and students from a variety of career programs are served by this College resource. Students may stop by in person and make an appointment with an advisor or call (607) 778-5534 to arrange a meeting. The Career and Academic Advising Center is located in Wales 115.

## TESTING

In conjunction with career and life planning, personal counseling, and academic counseling, the Counseling and Student Development Center offers students the opportunity to engage in a testing program. When appropriate, it can be arranged for a student to take a variety of tests including personality and interest inventories. Cognitive style mapping is also available to help students better understand their individual learning preferences. Tests can help students develop self awareness and improve their decision-making ability. The Counseling Center also administers the ACT test and other professional career tests and licensing examinations.

## HUMAN DEVELOPMENT COURSES

Courses are offered which provide students with an opportunity to examine their values, attitudes, beliefs and abilities. The courses also offer an opportunity to learn how these factors affect the quality of life and relationships with others. In addition, the students examine the challenge and problems of society as they relate to their development. The Career Exploration, Human Potential, and Individual in a Changing Environment courses are usually transferable credit.

## ORIENTATION PROGRAM

Orientation to the College for new and transfer students takes place prior to the beginning of classes in the fall and spring semester. Special sessions are arranged for new entering students that are designed to familiarize them with the campus, the services that are available to students, and college life at BCC. Staff from various departments on campus join together to make this program meaningful and beneficial to the new student at the college.

## SPECIAL WORKSHOPS AND SEMINARS

The Center offers a variety of workshops and seminars throughout the college year. Those that have been offered cover such topics as relaxation techniques, career exploration, cognitive style mapping, returning to college, assertiveness training, eating disorders and substance abuse.

## PROGRAM FOR PEOPLE OVER 60

Any citizen of New York State who is 60 years of age or more may "audit" courses at Broome Community College without charge, as long as there is space available. In this connection the word "audit" means these students take the course by attending classes and being exposed to all the work given in class and assigned in the text. They do not have to do the homework or take the examinations, however, and they receive no letter grade or college credit.

## COUNSELING FOR DISABLED STUDENTS

Students with disabilities may receive counseling through the Counseling and Student Development Center. A counselor is available for these students in Wales 103, which is completely accessible. All services of the Counseling and Student Development Center are available through this counselor and are confidential. To make an appointment, students should call 778-5210 or 778-5185 (TTY).

For other issues related to disabilities, please call the Student Support Services Office at 778-5150 (778-5234 TTY).

A TDD/TTY telephone unit is available in the Counseling and Student Development Center to make it accessible for the hearing impaired. The number is 778-5185.

## VETERANS EDUCATIONAL BENEFITS

The Counseling and Student Development Center administers and supervises the Office for Veterans Affairs. Located in the Wales Building (Room 115) the Veterans Coordinator assists veterans, and eligible dependents of veterans, in their certification for benefits and in those matters related to the Veterans Administration. The Coordinator works closely with the Counseling staff in referring students requiring counseling services.

## TRANSFER TO 4-YEAR COLLEGES AND UNIVERSITIES

Broome Community College has developed a fine reputation for its successful preparation of students for study at senior institutions. Students desiring to continue their education are encouraged to consult with a counselor in the Counseling and Student Development Center, their faculty advisor, department chairperson or dean for assistance in selecting a program and/or institution that is appropriate to their goals, abilities and aspirations.

To these ends, the College conducts the Transfer Emphasis Program, which consists of workshops sponsored by the Center and of visits to the campus by representatives of four-year schools to recruit and advise potential transfer students. These visits occur each semester, and they are designed to expedite the information process necessary to ensure a smooth transition between the college and various four-year programs. The representatives, generally from admissions offices, discuss life on their campuses, financial assistance possibilities and activities available, in addition to the traditional explanations of all their academic programs.

Applications for the State University of New York colleges and university centers are available in the Counseling and Student Development Center. Students should apply directly to all other colleges (non-SUNY units) by requesting an application and any other pertinent data from the admissions office of the desired college.

All students should arrange at the BCC Registrar's Office to have copies of their transcripts forwarded to the admissions office of the colleges to which they are applying. This will ensure proper transfer of applicable credits. Any requests for references and recommendations may be forwarded to the Counseling and Student Development Center, and all acceptances and rejections of applications should also be reported to the Center.

Any questions or problems regarding transfer should also be directed to the Counseling and Student Development Center. For information on special transfer opportunities, see pages 19-20.



## INTERNATIONAL STUDENTS

### GENERAL INFORMATION

The College welcomes students from other countries and is authorized by the United States Department of Justice to issue the necessary Certificate of Eligibility for F-1 Student Status (Form 1-20).

The College provides an advisor (Counseling Center) to assist students from other countries in all areas of student life while at Broome Community College. The advisor also assists the student in finding housing since the College has no student dormitories. College costs and living expenses are **approximately \$12,500** per year.

International students who are seeking transfer credit to BCC earned from an educational institution outside the USA are required to submit an official evaluation of foreign educational credentials provided by an accredited agency. Contact the BCC Admissions Office (Wales 102, 607-778-5001) for detailed information regarding approved agencies.

### ADMISSIONS REQUIREMENTS

#### English Language Proficiency

- A. Students who submit a TOEFL score of 525 or better will be admitted to the program of their choice if they have the academic background necessary for that program. Academic program requirements are listed on page 9 of the Catalog.
- B. Students who have not taken the TOEFL or who score below 525 can be admitted to the College and will be assigned a special academic advisor, if they have one of the following:
  1. A TOEFL score of 400.
  2. Successful completion of four years of English language at the secondary or college level.
- C. Students who do not meet either of the English proficiency requirements above can only be admitted to the College by special arrangement and must be in "sponsored" groups of 10 or more.

#### Other Requirements

- A. Applicants must submit the "Application for Admission" and "Applicant Information Sheet" which can be obtained by writing to the Admissions Office.
- B. Applicants must submit a transcript in English (certified translation) of all secondary school and college work completed.
- C. Applicants must provide an affidavit of financial support. Forms will be mailed along with application information.
- D. On acceptance to the College, students must show evidence of health coverage.
- E. Applicants must submit TOEFL test score.
- F. Applicants whose native language is not English must take a special language proficiency examination at the College before they are allowed to register for classes. Students must enroll in English language coursework every semester until they have met proficiency requirements. Along with other students at the College, international students are also required to take a mathematics placement test.

## STUDENT ACTIVITIES

The Student Activities Program at Broome has grown out of a conviction that education is not restricted to scheduled classes, that the hours outside of the classroom are of major importance, and that the Student Activities Program gives an additional dimension to education. This program offers a variety of social, cultural, and intellectual experiences.

The College actively supports a co-curricular activities program that is funded by the student activity fee paid each semester. The Student Activities area represents one phase of campus life in which the students can and do have a voice in management and programming. The diversity of students' interests is reflected in the many active clubs and organizations on campus. Involvement in the Student Activities Program can help students develop leadership abilities.

The office of Student Activities is in the Student Affairs Building, Room 101 (778-3033).

### STUDENT GOVERNMENT ASSOCIATION

The official organization of student representation on the Broome Community College campus is the Student Government Association. Student membership consists of officers and senators who are elected annually. All BCC students are welcome to attend meetings and become involved with SGA committees and activities. The SGA holds regularly scheduled meetings to discuss all issues concerning students. These issues are then presented to the appropriate faculty, staff or administrative area. A Student Trustee sits on the College Board of Trustees as a voting member and presents information of student interest to this body.

Student Government Association regularly reviews College policy and makes recommendations to the College Administration. Representatives of the SGA serve on the Faculty-Student Association. The operation of the Student Government puts students' ideas and viewpoints into action.

### STUDENT CENTER

One of the busiest buildings on the Broome Community College campus is the Student Center. It houses the gymnasium, the College Cafeteria, Book Store, the Little Theater, Physical Education and Athletic Directors' offices. This building is used by day and evening students of all curricula and many campus social events are held here.

### CLUBS

In addition to co-curricular activities, other organizations are active on campus. These include:

- |  |                       |
|--|-----------------------|
| Aviation Club                          | The Jesus Group       |
| BASIC (Brothers and Sisters in Christ) | Lambda Society        |
| BCC Storytellers                       | Lively Arts Society   |
| Chi Alpha                              | Muslin Student Assoc. |
| Differently Abled                      | Newman Association    |
| Student Organization                   | Outing Club           |
| Fine Art and Design Club               | People of Culture     |

Ecology Club  
God's Will  
International  
Students Organization

PHI THETA KAPPA  
Ski Club

These clubs are open to all students. Details are available in the Student Handbook.

### MEDIA

The campus newspaper offers a variety of information for the students. It speaks out on important issues, offers the humorous side of student life, and gives the students a chance to voice their opinions through editorials and human interest stories.

### PERFORMING ARTS

#### THEATRE / BCC

Complementing the studio and academic course work in theater is the group known as Theatre/BCC. All students are invited to participate, whether or not enrolled in formal course work.

Theatre/BCC enjoys a fine artistic reputation, presenting a broad range of theatrical styles, and provides its actors/technicians with varied opportunities for ensemble as well as individual training. Theatre/BCC provides a challenging and exciting experience for students with an interest in the theater, and most of its productions are performed in the intimate setting of the College's Little Theater.

#### MUSIC

College Choir is sponsored jointly by the Liberal Arts Division and Student Government Association. Choristers have gained an excellent reputation and are exposed to a broad range of choral literature reflecting the varied demands for community concerts. The chorus traditionally produces an annual performance of Handel's "Messiah" and an annual Spring Concert, as well as performances for local church and civic organizations. Rehearsals are held weekly and all students and staff, as well as community singers, are welcome to join this very active group.

**NOTE:** Students may receive transferable credit for active participation in College Choir.

The **Music Association** offers students who have previously played instruments the chance to continue their involvement in small ensembles (brass, woodwind and string) and the College Band. A limited program of private coaching is also available.

BCC Jazz Ensemble offers instrumentalists a chance to perform jazz and jazz-rock on campus. Its members strive for high quality performing and the enjoyment of working together toward this goal.

Jazz improvisation, beginning and intermediate piano, beginning guitar and reading classes are available to BCC students.



## PROFESSIONAL SOCIETY AFFILIATES

Since exposure to organizations in their fields of study is considered of benefit to students, many curriculums have their own affiliates of national professional societies. Among these are:

**American Institute of Banking (AIB)** for Banking/Finance students.

**Society of Manufacturing Engineers (SME)** for Mechanical Engineering Technology students.

**Dental Hygiene Association**, an affiliate of the American Dental Hygiene Association.

**Institute of Electrical and Electronics Engineers (IEEE)** for Electrical Engineering Technology students.

**Collegiate Secretaries International**, an affiliate of Professional Secretaries International.

In addition, some meetings of local professional societies are attended by students, such as the **American Chemical Society**, which invites Chemical Engineering Technology students to its meetings. Some professional societies hold meetings on campus, too, and students are always welcome to attend. Thus students have the opportunity to become acquainted with professional people in their fields of study and to attend lectures and see films and demonstrations of new developments.

## CURRICULUM AFFILIATED ORGANIZATIONS

In addition to the student organizations listed above that are affiliated with professional societies, the College has a number of associations that are identified with specific curriculums. Among these are Accounting Club, Chemistry Club, Civil Technology Association, Computer Club, Dental Hygiene Association, Medical Assistant Club, Health Information Club, Fulcrum (newspaper), Institute of Electrical & Electronics Engineers, Society of Manufacturing Engineers, Student Nurses Association, Lively Arts from the Liberal Arts curriculum, the Student Organization of Radiologic Technologies, the Broome Early Childhood Association, the student chapter of the N.Y.S. Restaurant Association, and the Physical Therapist Assistant Club.

## HONOR SOCIETIES

### Phi Theta Kappa

In 1962, the Mu Eta Chapter of Phi Theta Kappa was established at the College. Phi Theta Kappa is a national honor society at two-year colleges, similar in purpose to Phi Beta Kappa at the four-year colleges and universities. Mu Eta Chapter is open to freshmen and seniors at Broome Community College who have achieved outstanding academic grades.

### Alpha Beta Gamma

The Kappa Beta Chapter of Alpha Beta Gamma was established at BCC in 1993. Alpha Beta Gamma is a National Business Honor Society of Community and Junior Colleges encouraging scholarship among college students in business curricula. This organization recognizes Business Division students who exhibit the highest levels of academic achievement.



### Sigma Phi Alpha

The national dental hygiene honor society, Sigma Phi Alpha, has a chapter at Broome Community College, The Upsilon Chapter. Senior Dental Hygiene students who rank highest in scholarship and who exhibit potential qualities for future growth and attainment are selected for membership.

### Tau Alpha Pi

The national honor society for students in engineering technology programs, Tau Alpha Pi has established a chapter on the Broome Community College campus. It is the Beta Theta Chapter. This society recognizes academic achievement in BCC engineering technology curriculums in Electrical, Civil, Chemical and Mechanical Technology.

## ATHLETICS

The Athletic Department at Broome Community College serves as an integral part of the institution's total academic and student activities program. BCC is serious about athletics. The Department strives to provide an environment through which the athlete can achieve maximum development physically and mentally, through a well-rounded schedule of intercollegiate competition in athletics.

BCC is one of 550 member schools of the National Junior College Athletic Association (NJCAA). It is also one of 32 members of the subdivision of NJCAA Region III. BCC also participates in the Mid-State Conference as well as the Junior College Hockey League.

For Intercollegiate competition Broome Community College fields men's teams in eight varsity sports — basketball, baseball, cross-country, golf, ice hockey, soccer and tennis. For women BCC sponsors four varsity teams — basketball, cross-country, softball, and volleyball.

BCC athletic teams have a rich tradition of success in two-year college competition. Dick Baldwin, who formerly coached Men's Basketball at BCC for 40 years, set the all-time record of 879 victories by a college coach. This achievement earned BCC national recognition in the Basket-

ball Hall of Fame. The Golf team finished second in the Nationals in 1991. The Men's Basketball and Tennis teams won Regional Championships in 1994 and participated in the Division III National Championships. The baseball, soccer, ice hockey, and cross-country teams all have won regional and national recognition throughout the years.

The women's program has been as equally successful in regional competition. The Volleyball team has participated in the Regionals as well as the National Tournament. Cross-Country and Tennis have sent representatives to both tournaments. The Softball and Basketball programs have made great strides over the years and have contributed to the rich athletic tradition at BCC.

Cheerleading is also available for both men and women and the Athletic Department sponsors men's club LaCrosse.

In order to participate in Intercollegiate Athletics, students are required to meet NJCAA rules and academic eligibility requirements. All prospective athletes should contact the Athletic Office in the Student Center West (778-5003) to obtain further information on athletic eligibility requirements.

The Athletic Program is enhanced by its facilities: two large, fully equipped gymnasiums, a weight room, fitness center, a Dance/Combative room, athletic trainer's room, a baseball field, soccer field, and six tennis courts. A softball complex of four fields is also available to the College.

## INTRAMURALS

Physical activity is a vital part of an individual's life, regardless of physical capability. With this in mind, the Student Affairs Division and the Physical Education Department coordinate an intramural program for all students enrolled at the College. Students are invited to participate in team sports such as Indoor Soccer, Basketball and Volleyball. For those interested in individual competition or "Play for Fun" sports such as Tennis, Golf, Badminton, and Bowling are also offered. Students participating in intramurals should have a health questionnaire on file with the College Health Service. Forms are available in the Health Service Office (Wales Building, Room 104).



# PLACEMENT

## 89% OF 1995 GRADUATES FOUND JOBS OR TRANSFERRED

- **89% of the 1995 Graduates** either found employment or transferred to 4-year colleges, thus enabling BCC to fulfill its two major missions of preparing graduates for immediate employment or transfer to 4-year colleges.
- 50% of the graduates went to work.
- 39% transferred to 2 and 4 year colleges or other technical programs.
- 8% were unemployed at the time of the survey.
- 4% were unavailable for work.
- **Starting Salaries** of those who went to work averaged \$19,771 a year and ranged from \$9,776 up to \$35,360. About 25% reported salary information.
- **1,080 Graduates were in the Class of 1995** at Broome Community College and 84% of them responded to the survey. All statistics here are based on that 84% response.

### Where they went to work:

- 76% of those who went to work found jobs in Broome County, with an additional 9% working elsewhere in the Southern Tier. In addition 3% got jobs elsewhere in New York State, and another 11% went outside of the state.

### Where they transferred to:

- 75% of those who are continuing their higher education transferred to colleges in the State University of New York (SUNY) system.
- 11% to private colleges in New York State.
- 15% to out-of-state colleges and universities.

### Leading employers in order:

- Hospitals, Nursing Homes, Clinics, Rehabilitation Centers & Related
- Day Care, Educational & Nonprofit Organizations
- Large Industry
- Restaurant and Fast Food Establishments
- Retail Stores
- Self Employed
- Dentists, Dental Surgeons & Related
- Small to Medium Industry
- Physicians, Surgeons & Related Medical
- Grocery Stores, Bakeries & Food Distributors

### Colleges to which BCC graduates most frequently transferred in 1995 in order:

- Binghamton University
- SUC at Cortland
- SUC at Oswego
- SUC at Oneonta
- SUNY Institute of Technology at Utica/Rome
- SUC at Buffalo
- Rochester Institute of Technology
- SUNY at Buffalo
- SUNY College of Environmental Science and Forestry
- SUC at Fredonia



## PLACEMENT OFFICE SERVICES

Most students who attend Broome Community College will eventually enter the job market. Getting a job, particularly that first entry level position, requires an understanding of how to contact employers and what job hunting techniques provide the best employment success. The Placement Office not only helps students locate positions, but offers assistance in resume writing, networking and interviewing techniques. In addition to providing information through workshops, appointments can be made to discuss job market trends, salary expectations, and other topics related to employment.

The Placement Office lists full-time positions, most of which are related to academic programs at the College. Listing and assistance with locating part-time and seasonal jobs is available.

Additional services include access to the state and national job market via Internet, publications specifically related to employment techniques, and use of word processors, laser printer and

typewriter for resume and cover letter composition.

The quality of the College's academic programs is well known both locally and nationally. During the spring semester of every year, representatives of business, industry and other organizations visit the campus to interview potential graduates for employment purposes. Augmenting the one-on-one recruiting interview is the opportunity to make contact with several employers during the Technical Job Fair in January, the Health Sciences Job Fair in February and the Business & Liberal Arts Job Fair in April. Students wishing information regarding these recruitment programs should contact the Placement Office.

The Placement Office is located in the Wales Building, Room 201, and is open for student use from 8:00 until 4:30 each day. Evening hours are available on an appointment basis only.



# PLACEMENT FOR CLASS OF 1995

## THE ACADEMIC AREAS

**BUSINESS** — 253 graduates, 55% employed, 5% unavailable for work, 30% transferred, 10% unemployed. Salary info. - \$15,826 average. \$11,440 to \$24,000 range.

**COMPUTER STUDIES** — 32 graduates, 39% employed, 0% unavailable for work, 44% transferred, 17% unemployed. Salary info. - \$14,460 average. \$12,800 to \$16,120 range.

**ENGINEERING AND TECHNOLOGY** — 106 graduates, 55% employed, 2% unavailable for work, 35% transferred, 8% unemployed. Salary info. - \$22,781 average. \$14,560 to \$30,000 range.

**HEALTH SCIENCES** — 200 graduates, 76% employed, 6% unavailable for work, 9% transferred, 9% unemployed. Salary info. - \$23,239 average. \$14,600 to \$35,360 range.

**LIBERAL ARTS** — 302 graduates, 22% employed, 2% unavailable for work, 73% transferred, 3% unemployed. Salary info. - NA.

**SPECIAL CAREER PROGRAMS** — 187 graduates, 52% employed, 6% unavailable for work, 33% transferred, 9% unemployed. Salary info. - \$12,278 average. \$9,776 to \$18,000 range.

## CURRICULUM

Following is a summary of each curriculum of BCC's six academic areas in which there were graduates last year. Percentages are based on number of graduates responding, not total number.

## BUSINESS

**ACCOUNTING** — 58 graduates, 54% employed, 6% unavailable for work, 23% transferred, 17% unemployed. Salary info. - \$14,570 average. \$12,500 to \$16,400 range.

**BUSINESS ADMINISTRATION** — 52 graduates, 16% employed, 11% unavailable for work, 73% transferred, 0% unemployed. Salary info. - NA.

**ENTREPRENEURSHIP** — 5 graduates, 67% employed, 0% unavailable for work, 33% transferred, 0% unemployed. Salary info. - NA.

**HOTEL/RESTAURANT PROGRAM** — 13 graduates, 58% employed, 0% unavailable for work, 42% transferred, 0% unemployed. Salary info. - \$18,690 average. \$11,960 to \$22,000 range.

**MANAGEMENT** — 14 graduates, 55% employed, 9% unavailable for work, 18% transferred, 18% unemployed. Salary info. - NA.

**MARKETING MANAGEMENT** — 45 graduates, 75% employed, 3% unavailable for work, 11% transferred, 11% unemployed. Salary info. - \$16,470 average. \$11,440 to \$21,500 range.

**MARKETING AND RETAIL MANAGEMENT** — 21 graduates, 61% employed, 6% unavailable for work, 22% transferred, 11% unemployed. Salary info. - NA.

**OFFICE TECHNOLOGIES (EXECUTIVE)** — 6 graduates, 80% employed, 0% unavailable for work, 0% transferred, 20% unemployed. Salary info. - NA.

**OFFICE TECHNOLOGIES (WORD PROCESSING)** — 24 graduates, 68% employed, 5% unavailable for work, 11% transferred, 16% unemployed. Salary info. - \$12,584 average. \$11,440 to \$14,872 range.

**RECORDS INFORMATION MANAGEMENT** — 3 graduates, 33% employed, 0% unavailable for work, 67% transferred, 0% unemployed. Salary info. - NA.

**TRAVEL AND TOURISM** — 12 graduates, 67% employed, 0% unavailable for work, 33% transferred, 0% unemployed. Salary info. - \$16,348 average. \$11,960 to \$24,000 range.

## COMPUTER STUDIES

**COMPUTER INFORMATION SYSTEMS** — 10 graduates, 57% employed, 0% unavailable for work, 43% transferred, 0% unemployed. Salary info. - NA.

**COMPUTER SCIENCE** — 19 graduates, 31% employed, 0% unavailable for work, 54% transferred, 15% unemployed. Salary info. - NA.

**COMPUTER TECHNOLOGY** — 3 graduates, 33% employed, 0% unavailable for work, 0% transferred, 67% unemployed. Salary info. - NA.

## ENGINEERING AND TECHNOLOGY

**CHEMICAL ENGINEERING TECHNOLOGY** — 17 graduates, 40% employed, 7% unavailable for work, 40% transferred, 13% unemployed. Salary info. - \$20,270 average. \$14,560 to \$25,980 range.

**CIVIL ENGINEERING TECHNOLOGY** — 19 graduates, 61% employed, 0% unavailable for work, 33% transferred, 6% unemployed. Salary info. - \$23,880 average. \$16,640 to \$30,000 range.

**ELECTRICAL ENGINEERING TECHNOLOGY** — 22 graduates, 53% employed, 0% unavailable for work, 37% transferred, 11% unemployed. Salary info. - \$23,323 average. \$20,030 to \$28,100 range.

**ENGINEERING SCIENCE** — 14 graduates, 0% employed, 8% unavailable for work, 83% transferred, 8% unemployed. Salary info. - NA.

**INDUSTRIAL TECHNOLOGY** — 21 graduates, 90% employed, 0% unavailable for work, 5% transferred, 5% unemployed. Salary info. - NA.

**MECHANICAL ENGINEERING TECHNOLOGY** — 13 graduates, 61% employed, 0% unavailable for work, 31% transferred, 8% unemployed. Salary info. - NA.

## HEALTH SCIENCES

**DENTAL HYGIENE** — 26 graduates, 83% employed, 13% unavailable for work, 0% transferred, 4% unemployed. Salary info. - \$29,351 average. \$22,464 to \$35,360 range.

**HEALTH INFORMATION TECHNOLOGY** — 15 graduates, 64% employed, 0% unavailable for work, 14% transferred, 21% unemployed. Salary info. - \$16,008 average. \$14,600 to \$17,200 range.

**MEDICAL ASSISTANT** — 26 graduates, 62% employed, 19% unavailable for work, 8% transferred, 12% unemployed. Salary info. - \$16,162 average. \$15,600 to \$16,723 range.

**MEDICAL LABORATORY TECHNOLOGY** — 13 graduates, 54% employed, 8% unavailable for work, 23% transferred, 15% unemployed. Salary info. - NA.

**NURSING** — 71 graduates, 81% employed, 2% unavailable for work, 9% transferred, 8% unemployed. Salary info. - \$25,314 average. \$23,920 to \$27,040 range.

**PHYSICAL THERAPIST ASSISTANT** — 21 graduates, 95% employed, 0% unavailable for work, 0% transferred, 5% unemployed. Salary info. - \$22,200 average. \$20,098 to \$30,000 range.

**RADIOLOGIC TECHNOLOGY** — 28 graduates, 76% employed, 4% unavailable for work, 16% transferred, 4% unemployed. Salary info. - \$21,048 average. \$20,862 to \$21,151 range.

## LIBERAL ARTS

**ASSOCIATE IN ARTS DEGREE** — 211 graduates, 17% employed, 2% unavailable for work, 80% transferred, 1% unemployed. Salary info. - NA.

**ASSOCIATE IN SCIENCE DEGREE** — 17 graduates, 14% employed, 7% unavailable for work, 79% transferred, 0% unemployed. Salary info. - NA.

**COMMUNICATION AND MEDIA ARTS** — 30 graduates, 42% employed, 0% unavailable for work, 54% transferred, 4% unemployed. Salary info. - NA.

**MENTAL HEALTH** — 44 graduates, 33% employed, 3% unavailable for work, 54% transferred, 10% unemployed. Salary info. - NA.

## LIBERAL ARTS RELATED CAREERS

**CRIMINAL JUSTICE** — 57 graduates, 58% employed, 5% unavailable for work, 33% transferred, 5% unemployed. Salary info. - NA.

**EARLY CHILDHOOD** — 26 graduates, 68% employed, 4% unavailable for work, 24% transferred, 4% unemployed. Salary info. - \$10,645 average. \$9,776 to \$12,200 range.

**FIRE PROTECTION TECHNOLOGY** — 11 graduates, 86% employed, 0% unavailable for work, 14% transferred, 0% unemployed. Salary info. - NA.

**INDIVIDUAL STUDIES (AAS)** — 1 graduate, 100% employed. Salary info. - NA.

**INDIVIDUAL STUDIES (AS)** — 32 graduates, 21% employed, 10% unavailable for work, 62% transferred, 7% unemployed. Salary info. - NA.

**PARALEGAL** — 60 graduates, 51% employed, 6% unavailable for work, 26% transferred, 18% unemployed. Salary info. - \$15,110 average. \$12,500 to \$18,000 range.



# COLLEGE ENHANCEMENT

## BCC FOUNDATION

The Broome Community College Foundation, Inc. is a not-for-profit corporation that raises private funds to enhance educational programming at BCC. Gifts to the Foundation provide assistance in three major areas: STUDENT SUPPORT, for needy students in the form of grants-in-aid, or scholarships to student achievers; FACULTY DEVELOPMENT grants that are used by faculty to update their knowledge; and SPECIAL PROJECTS grants to the College to help fund projects for which public dollars are unavailable or insufficient.

These private funds are raised from alumni, parents, faculty/staff, community friends, corporations, private foundations, and civic and professional organizations. The development program is designed and implemented by a small staff of professionals who are assisted by about 150 community volunteers for a successful fund raising effort on behalf of BCC.

Founded in 1965, the BCC Foundation has worked since that time to raise private funds for BCC. In addition to gifts made annually, the Foundation has raised and manages an endowment of about \$5.6 million. Income from these invested endowed funds is used to support the College, while the principal is maintained in perpetuity.

Gifts to BCC whether they are cash, securities, real property, books, equipment, works of art, or any gift-in-kind are administered by the Foundation, which serves as a conduit for all gifts to the College. Gifts to the BCC Foundation are tax deductible as allowed by law.

## ALUMNI

The Broome Community College Alumni Association provides the link between the College and its 26,700 alumni. Any BCC graduate or matriculated student with at least 15 credit hours completed may become a member by paying a fee of \$25.00.

Alumni may also keep in touch by sharing their achievements in **BCC News**, the official alumni newsletter. For more information contact the Alumni Affairs office in Room 114 of the Wales Administration Building, or call (607)-778-5036.

## COUNCIL ON THE ARTS

BCC's Council on the Arts, comprised of faculty, staff, and students, organizes a series of fine and performing arts presentations throughout the academic year. Typical programs have included brass quintet concerts, piano and voice recitals, Andean folk music concerts, poetry readings, jazz concerts, madrigals and masques. Students are encouraged to take full advantage of these performances.

## FACULTY-STUDENT ASSOCIATION

The Faculty-Student Association of Broome Community College Inc. is an educational corporation which provides a variety of auxiliary services for the benefit of the College community. The College Bookstore, child care, and food vending are among the services provided. The FSA also administers the annual Student Activities budget.

## CAMPUS STORE

The Campus Store has two areas of operation, the Textbook Department and the General Merchandise Department. They are located across from one another in the lobby area of the Student Center.

In the Textbook Department students may purchase the books required for their courses. It opens one week prior to the start of classes for advance sales. To avoid standing in long lines the first few days of classes, students are urged to take advantage of the early sales period. It is advisable to purchase all required textbooks early in the semester. Unsold textbooks are returned to publishers shortly after the semester begins. Notices urging students to purchase the remainder of their textbooks for the current semester are posted throughout the campus on bulletin boards two weeks prior to the start of book returns.

The General Merchandise Department offers such classroom supplies as notebooks, paper, pens, binders, art and drafting materials, recycled paper products as well as computer diskettes, supplies and a variety of software programs. In addition, backpacks, imprinted sportswear and gift items may be purchased. The general book area offers a line of study aids, reference titles, magazines and newspapers.

The Campus Store hours of operation are posted at each store entrance. Customers who have questions, special requests, problems or suggestions should feel free to contact the Campus Store Director.

## CHILD CARE

For many students, a major concern is finding a safe place for their children during class time. The Faculty-Student Association helps to meet that need by operating a licensed child care service known as The B.C. Center.

The purpose of the service is to provide quality care in an educational, instructive and warm environment. The staff is genuinely interested in the emotional, intellectual and physical growth of each child.

Space is limited, and registrations are required. For additional information, call 778-KIDS.

## COMMUNITY EDUCATION

Broome Community College has an extensive non-credit community education program of courses, seminars and special events. The program receives about 10,000 registrations each year in its open enrollment programs, serving the community's career development, cultural, and recreational needs. For information call 778-5012.

## CAREER DEVELOPMENT

This category consists of workshops and seminars designed to update professional skills or introduce participants to new career areas. Included are Computer Center offerings, the Management Institute, the BCC School for Small Business, and other programs.

## CORPORATE SERVICE

The Corporate Service Program at Broome Community College is designed to demonstrate the College's commitment to local economic development. The Program's principle mission is to produce quality education and training programs for area business and industry. These programs may include both credit and non-credit offerings.

Course offerings in areas such as total quality management, assessment of work force training needs, basic skills instruction, customized training, certificate programs, human resource management, wellness programs, educational counseling, mandated training, and outplacement services can be accessed by area companies. Class schedules can be flexibly scheduled around the shift schedules of the company. Courses can be held on our campus or at the company worksite.

For additional information on contract education and training programs, call the Corporate Service Program in the Center for Community Education at 778-5054.

## CONFERENCES AND SEMINARS

The College conducts conferences and seminars on a variety of topics throughout the year. These are intended to update job skills and explore new fields of interest. Some of the seminars have been for women seeking jobs and educational information, community agencies, and business and industry employees.

## PERSONAL ENRICHMENT CLASSES

These are short term programs designed to explore a variety of personal interests. Programs include a hobby and craft center, personal development courses, financial courses, defensive driving, languages, and a variety of special events.











# PART 2

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# APPLIED SCIENCES

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**DIVISION DEAN, William C. Beston**

Applied Technology Building, Room 120

Telephone 778-5014

Fax No. 778-5345

INTERNET: BESTON-W@SUNYBROOME.EDU

**ASSISTANT TO THE DEAN, Linda L. Mapes**

Applied Technology Building, Room 210

Telephone 778-5383

## The Applied Sciences Division Consists of two areas of study:

**Health Sciences including:**

- Dental Hygiene
- Dietary Manager
- Emergency Medical Technology - Paramedic
- Medical Assistant
- Medical Laboratory Technology
- Health Information Technology
- Nursing
- Physical Therapist Assistant
- Radiologic Technology

**Technologies, Engineering & Computing including:**

- Chemical Engineering Technology
- Civil Engineering Technology
- Computer Science
- Computer Technology
- Computer Information Systems
- Electrical Engineering Technology
- Engineering Science
- Mechanical Engineering Technology
- Industrial Technology

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## HEALTH SCIENCES

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Opportunities for men and women interested in the health sciences field are provided in seven areas - Dental Hygiene, Medical Assistant, Medical Laboratory Technology, Medical Record Technology, Nursing, Physical Therapist Assistant, and Radiologic Technology. All Health Science associate degree programs are fully accredited. All Health Science students must meet the required prerequisites as listed on page 9 of this catalog prior to taking any professional courses. Graduates are prepared to work immediately after graduation in physicians' or dentists' offices, laboratories or hospitals. Graduates of these programs are also qualified to take whatever licensing or certification examination their professions require. The College also offers a Dietary Manager Certificate program for those working in the field.

Although not required by Broome Community College or the State University of New York, students enrolled in health science programs where clinical experience is a curriculum requirement should note that compliance with the OSHA Bloodborne Pathogen Standards is a requirement of affiliating health agencies.

The OSHA standards on Exposure to Bloodborne Pathogens require employees to either be vaccinated for hepatitis or sign the appropriate form declining the vaccination. The standards do not mention students. Nonetheless, many affiliate health agencies are requiring students to comply with the regulations.

Academic Standards for Clinical Education in the Health Sciences Division programs require dismissal of students who fail to meet established academic objectives for the physical safety, psychological safety and confidentiality of patients.



# DENTAL HYGIENE

DEPARTMENT CHAIRPERSON, Dorothy J. Walsh  
Science Building, Room 108  
Telephone 778-5149

The Dental Hygiene curriculum is designed to prepare students for the contemporary practice of dental hygiene. The curriculum emphasizes the fundamental knowledge necessary for practice in a private dental office or similar clinical setting under the supervision of a dentist.

The dental hygienist performs various services, such as dental prophylaxis, topical fluoride applications, pit and fissure sealants, dental radiographs and instruction in plaque control procedures. Successful completion of the curriculum permits one to take the required written and practical licensure examinations.

The Dental Hygiene Department teaches all functions concerning clinical competency allowed by New York State Practice Act with the following exceptions: a) removing sutures; b) placing and removing periodontal dressings; and c) placing or removing matrix bands. These are services which may be performed only under personal supervision of a dentist and may require additional training in the office practice setting.

In keeping with the college policy regarding non-discrimination, the dental hygiene students are expected to treat all patients without regard to race, sex, color, creed, age, national origin, disability, marital status, health status, veteran status or sexual orientation.

Students are required to follow department infection control policies and procedures which are based on CDC Recommendations and OSHA regulations.

Dental Hygiene graduates averaged \$26,500 as starting salaries in 1994, encompassing a range from \$23,300 - \$31,200.

Students who wish to pursue a career as a dental hygienist in public health, health management, health education or dental hygiene education are encouraged to transfer to a baccalaureate program after graduation.

The program is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Post-Secondary Accreditation and by the United States Department of Education.

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

## CURRICULUM ADVISORY COUNCIL DENTAL HYGIENE

JEANETTE BRENNAN, R.D.H.  
DONALD BRONSKY, D.D.S., Orthodontist  
EDWARD A. BUDNIKAS, D.M.D., Orthodontist  
KATHY CROWLEY, R.D.H.  
CYNTHIA HEALY, R.D.H.  
ANTHONY C. PALOMBARO, D.D.S., General Practice  
DAVID PAYNE, D.D.S., Oral Surgery  
CAROL TULL, R.D.H.  
KENNETH WARNER, R.D.H.  
J. MICHAEL WEBER, D.M.D., M.S., Periodontist

## Dietary Manager

### Leads to Certificate

This program is designed for individuals already employed in the food service field, as there is a requirement for supervised work experience by a Registered Dietitian who acts as preceptor to the student. All persons entering the program are responsible for finding a preceptor, and registrations are on a pre-application basis. All applicants must be matriculated through the Admissions Office.

	Credits
DIA 101 Nutrition	3
DIA 102 Institution Food Preparation	3
DIA 201 Food Management Systems	3
DIA 202 Personnel Management	3

Apply for Certificate - Dietary Manager

More Information:

Judith Komarinetz, R.D., Coordinator

### FIRST YEAR

#### Fall Semester

			Hours per Week		Credits per Semester
			Class	Lab	
BIO	131	Human Biology I .....	3	2	4
DEN	101	Dental Hygiene I .....	2	8	4
DEN	103	Oral Anatomy and Physiology .....	3	3	4
DEN	108	Infection Control in Dentistry .....	1	0	1
ENG	110	Written Expression I .....	3	0	3
			12	13	16

#### Spring Semester

BIO	132	Human Biology II .....	3	2	4
BIO	160	Microbiology .....	2	3	3
DEN	102W	Dental Hygiene II .....	3	8	5
DEN	106	Clinical Dental Radiography .....	1	2	2
DEN	107	Introduction to Periodontology .....	1	0	1
DEN	110	Dental Materials .....	2	3	3
			12	18	18

### SECOND YEAR

#### Fall Semester

DEN	201	Dental Hygiene III ....	2	12	5
DEN	204	General and Oral Pathology .....	3	0	3
DEN	205	Periodontology .....	2	0	2
DEN	209W	Nutrition .....	3	0	3
DEN	213	Public Health .....	2	2	3
PSY	110	General Psychology ...	3	0	3
			15	14	19

#### Spring Semester

DEN	202	Dental Hygiene IV .....	2	12	5
DEN	206	Dental Pharmacology	2	0	2
DEN	214	Current Topics in Dental Hygiene .....	2	0	2
ENG	220	Communicating About Values .....	3	0	3

Social Science

'Civic Education'

SOC 111, SOS 111 or

SOS 120 .....	3	0	3
	12	12	15

**NOTE:** 1. Students must complete a Dental Hygiene Department Health Questionnaire, PPD Mantoux lab test and be certified in American Heart Association CPR for Health Care Providers (Level C) prior to admittance to Dental Hygiene I. Students must be recertified annually.

2. The department strongly recommends vaccination against Hepatitis B prior to treating patients in Dental Hygiene I.

3. Students must complete the professional DEN course sequence within four (4) years from the date that they begin the first required professional courses DEN 101 Dental Hygiene I and DEN 103 Oral Anatomy.

4. Student accident insurance is highly recommended for part time students. See reference page 10.

W - Writing Emphasis Course

**GRADUATION REQUIREMENT: 68 CREDITS**

## CURRICULUM ADVISORY COUNCIL DIETARY MANAGER

KATHY BELL, R.D. — Consultant  
WILLIAM C. BESTON — Dean of Applied Sciences  
RAYMOND DENNISTON — Director of School Lunch,  
Johnson City Schools  
MICHAEL KEENAN — Director of Food Service,  
Hilltop Retirement Community  
JUDITH KOMARINETZ — Coordinator, Dietary Manager  
Program, Broome Community College  
GLORIA ROCKISAK, CDM — Binghamton General Hospital  
JEANNE STRACUZZI, R.D. — Consulting Dietitian, Broome  
County Office for Aging  
MICHAEL SWEENEY — Administrator, Hilltop/Johnston  
Retirement Community  
STUDENT — Appointed annually



# EMERGENCY MEDICAL TECHNOLOGY-PARAMEDIC

## Pending Approval of the State Education Department

DEPARTMENT CHAIRPERSON, Bonnie Lou Deister

Mechanical Building, Room 220

Telephone 778-5088 Secretary 778-5161

Broome Community College in affiliation with Lourdes Hospital and United Health Services Hospitals is offering a two-year A.A.S. degree in EMT-Paramedic. This program offers education and training for provision of the highest level of pre-hospital care - the paramedic. Clinical courses for this program will be offered through Lourdes Hospital and United Health Services.

To help assure the transition of the paramedic student from technician to clinician, students will be exposed to the total educational experience. The program includes 360 classroom hours, 324 hospital clinical hours and 152 hours of field internship.

Clinical rotations will serve as an opportunity for students to develop competency in interacting with patients and performing skills in a controlled environment.

The field internship will allow the student to integrate knowledge from the classroom with hands-on skills developed in the clinical rotations and apply them to field practice under the supervision of a paramedic preceptor.

Students may gain recognition of their existing experience by receiving advanced standing for portions of clinical and field internships.

General Education and liberal arts courses may be taken before, after or during EMT clinical courses.

EMT clinical course schedule is available from the program coordinator along with starting dates for the next class.

### Prerequisites:

Prior to admission into the paramedic program, the student must:

1. be at least 18 years of age;
2. have a high school diploma or an equivalent;
3. be currently certified as an EMT in New York State;
4. submit a completed application with high school and college transcripts and two letters of recommendation;
5. complete an interview with the program coordinator and medical director, and take an EMT-level written examination;
6. have a minimum of 1 year EMS experience;
7. apply and be admitted to Broome Community College.

### Faculty:

Michael Schreck, MD

Medical Director

Dr. Schreck is the course Medical Director, responsible for the medical content of the program. Dr. Schreck is board certified in both family practice and emergency medicine. In addition to his experience as an emergency physician, he is involved in the formal education of residency students and hospital quality assurance activities.

Jerome Morrison, NREMT-P, RN

Program Coordinator

Mr. Morrison is the course instructor-coordinator. His clinical experience combines 15 years of prehospital care with 12 years of nursing. Mr. Morrison is the chairman of the Susquehanna Regional Emergency Medical Services Council, an alternate to the New York State Emergency Medical Services Council and a member of the New York State Training and Education Committee.

### Adjunct Faculty

The program utilizes area health care professionals with special knowledge and interest in EMs as laboratory instructors and specialty lectures.

### ADMISSION TO THE COLLEGE AND FINISHING GENERAL EDUCATION REQUIREMENTS DOES NOT GUARANTEE ADMISSIONS INTO PARAMEDIC CLINICAL CLASS. PREREQUISITES MUST BE MET!

Sequences of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

## EMERGENCY MEDICAL TECHNICIAN: PARAMEDIC EMT-P

### ASSOCIATE IN APPLIED SCIENCE (AAS)

#### FIRST YEAR

Full Time (11 months)

Credits

#### Semester 1/2/3

EMT 101	Paramedic I .....	18
EMT 102	Paramedic II .....	18
		<hr/> 36

To be taught at Our Lady of Lourdes Hospital. Times TBA.

#### SECOND YEAR

##### Semester 1

ENG 110	Written Expression .....	3
PSY 110	General Psychology .....	3
CST 105	Understanding Computers OR .....	3
CST 107	Business Applications on the Microcomputer	
POS 201	Introduction to American Government OR .....	3
POS 204	American State & Local Government	
MAT 113	Mathematical Explorations I OR .....	3
MAT 114	Mathematical Explorations II	
		<hr/> 15

##### Semester 2

ENG 220	Communicating About Ideas & Values .....	3
SOC 111W	Social Problems OR .....	3
SOS 111W	Public Affairs OR	
SOS 120	Science Technology & Democratic Society	
MAT 113	Mathematical Explorations I OR .....	3
MAT 114	Mathematical Exploration II	
BIO 120	Human Sexuality .....	3
ELECTIVE	.....	3-4
		<hr/> 16-17

#### Total Credit

67-68

Minimum of 20 credits in Liberal Arts

- (1) Social Sciences ..... (6)
- (2) Natural & Physical Sciences ..... (6-8)
- (3) Humanities - Two designated English courses ..... (6)
- (4) Writing Emphasis to be taken in second semester concurrent with ENG 220
- (5) Suggested Electives:

HIT 106	Medical Terminology
MDA 210	Pharmacology
PHS 111	Physical Science for Today
PSY 210	Developmental Psychology
SPK 102	Effective Speaking
BIO 150	Microbiology
ENG 090	May be necessary before ENG 110
MAT 090	May be necessary before MAT 113 or MAT 114

### GRADUATION REQUIREMENTS: 66-68 CREDITS

## CURRICULUM ADVISORY COUNCIL EMT - PARAMEDIC

Mr. Robert Nowlan	Mr. Raymond Serowik
Mr. Anthony Disser	Mr. Rich Howard
Mr. William Loller	Mrs. Debbie Phillips
Mr. Jerome Morrison	Mrs. Debbie Hackett
Dr. Christian Tvetenstrand	Dr. Stephen Casimir
Ms. Kathy Halloran	Dr. Michael Schreck
Mrs. Sue Pierce	Mr. Dick Barden
Ms. Bonnie Deister	Mr. Any Cohen



# MEDICAL ASSISTANT

DEPARTMENT CHAIRPERSON, Bonnie Lou Deister  
Mechanical Building, Room 220  
Telephone 778-5161

A Medical Assistant is one of the most versatile of all the allied health professionals. There is a variety of employment opportunities available for individuals with associate degrees. These positions are in physicians' offices, medical centers, clinics, hospitals, armed services, laboratories and pharmaceutical companies. One can also find employment in public, industrial, school, and correctional health departments, as well as in the fields of research, publishing and teaching. A medical assistant can seek additional degrees in such fields as allied health services, health care management, and education. The program is designed to enable graduates to do both administrative and clinical/laboratory techniques.

By studying specifically related subjects as medical assisting procedures, clinical laboratory procedures and human biology, students will acquire the knowledge and techniques to prepare patients for examinations and to assist the physician. These courses also prepare students to perform not only routine medical procedures but also electrocardiography, audiometry, urinalysis and hematological tests.

Courses in medical terminology, keyboarding, medical correspondence and medical office management prepare the student to conduct business and administrative duties. English, social sciences, psychology and medical law are included to provide a general background.

Directed Practice is an integral part of the curriculum as senior students participate in a 15 week, externship program that requires a working experience in physicians' offices or other health care facilities.

The curriculum is accredited by the Committee on Allied Health Education and Accreditation in collaboration with the American Medical Association (AMA) and the American Association of Medical Assistants (AAMA). Graduates are awarded the Associate in Applied Science degree and may elect to take a national examination given by the AAMA to become Certified Medical Assistants. This CMA status is known throughout the country, recognizing the graduate as a competent professional and leads to improved career opportunities and higher salaries.

Starting salaries of program graduates average over \$15,000. The work week is usually less than 40 hours with fringe benefits such as medical care, medications and paid health insurance.

**ALL STUDENTS MUST HAVE CPR CERTIFICATION and a physical before going out to clinical in senior semester.**

## CURRICULUM ADVISORY COUNCIL MEDICAL ASSISTANT

DR. BRUCE BOWLING — Chief Medical Advisor, Endwell Family Physicians  
THOMAS BIELEFELDT — Exec. Director, Medical Societies of Broome, Chemung, Delaware and Otsego Counties  
RACHELLE CAROC — Tier Orthopedic Assoc. PC  
PHYLLIS DEVINE — CMA Medical Assistant Graduate  
M. ELLEN DONOVAN — R.N. Medical Assistant, Chenango Bridge Medical Center  
BEA GRACE, R.N. — Endwell Family Physicians  
HELEN KILLIAN — UHS Family Health Center  
DEMETRIO A. PEGUERO, M.D. - IBM  
DIANA PIGOS, C.M.A. — Endwell Family Physicians  
DIANE PRECOPIO — Susquehanna Medical Affiliates  
ANN PULANO — Vestal Medical Assoc.  
RICHARD C. RONEY — Vice President, Key Bank of Central New York

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

			Hours per Week		Credits per Semester
			Class	Lab	
<b>FIRST YEAR</b>					
<b>Fall Semester</b>					
BIO	131	Human Biology I .....	3	2	4
ENG	110	Written Expression I .	3	0	3
MDA	102	Medical Assisting Science	2	0	2
MDA	104	Keyboarding and Medical Word Processing .....	0	4	2
MDA	114	First Aid & Personal Safety: Management of Emergencies .....	0	2	1
HIT	106	Medical Terminology	3	0	3
			11	8	15

<b>Spring Semester</b>					
BIO	132	Human Biology II .....	3	2	4
MDA	115	Medical Assisting Procedures I .....	3	2	4
MDA	106	Medical Correspondence and Communications	2	4	4
*SOC SCI/Civic elective .....			3	0	3
			11	8	15

<b>SECOND YEAR</b>					
<b>Fall Semester</b>					
MDA	206	Medical Office Management .....	3	3	4
MDA	208	Medical Ethics, Law and Economics .....	3	0	3
MDA	201	Medical Assisting Procedures II .....	2	4	4
PSY	110W	General Psychology ...	3	0	3
MDA	207	Advanced Medical Office Management .....	3	2	4
			14	9	18

<b>Spring Semester</b>					
MDA	211	Medical Assisting Procedures III .....	3	2	4
MDA	245	Directed Practice & Seminar .....	1	16	5
MDA	210	Pharmacology .....	2	0	2
ENG	220	Communicating About Values .....	3	0	3
			9	18	14

\*W - Writing Emphasis Course

**GRADUATION REQUIREMENTS: 62 CREDITS**



# MEDICAL LABORATORY TECHNOLOGY

DEPARTMENT CHAIRPERSON, Julia Peacock  
Student Affairs, Room 112  
Telephone 778-5211

Medical Technology is a health profession which combines the best of several worlds. In this field, the basic sciences of Biology and Chemistry are merged with medicine. Medical Technologists and Medical Laboratory Technicians perform biological tests in search of diagnostic clues as evidence of health or disease.

In the search for data on a patient's health, people working in this field may examine specimens through a microscope or perform, for example, the tests necessary to match a donated unit of blood to a patient in need of that unit. Or, they may identify the microorganisms associated with health and disease. They are also competent operators of the computers and complex electronic instrumentation which are used in most areas of today's laboratories.

Although they usually spend less time with patients than physicians and other health professionals, the Medical Technologist and Technician play a vital role in patient care. In many laboratories, the Medical Technologist and Technician performs the full range of laboratory testing in all six major areas of the laboratory, which are Hematology, Immunology, Microbiology, Body Fluids, Blood Banking, and Chemistry. In other laboratories, the technologist or technician can choose to "specialize" or concentrate study and work in only one of the areas listed.

While entry to the field may be accomplished at the Medical Laboratory Technician (AAS Degree) level, a technician may choose to continue to advance, by education or experience, to the BS level, as a Medical Technologist, or as a specialist in any area they choose. Because of this diversity, many technicians find advancement in their profession well within their grasp.

Approximately two-thirds of practicing technologists work in hospital laboratories. Others are employed in physicians offices, clinics, commercial firms such as pharmaceutical companies, all types of research facilities, the armed forces, public health centers and in veterinary clinics. Many are teachers or serve in managerial positions. Still others are representatives for commercial suppliers or work in product development for those companies.

Wherever they work, the technicians and technologists in this field share a strong desire to help others, a love of challenge and responsibility, and the ability to complete a wide variety of scientific tests accurately and reliably.

This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Pre-admission advisement is recommended.

## CURRICULUM ADVISORY COUNCIL MEDICAL LABORATORY TECHNOLOGY

MAXIMILLIAN BORSKI — Medical Laboratory Technology,

Broome Community College

PAUL ENGINEER — United Health Services

EDWARD FITZGERALD — St. Joseph's Hospital, Elmira, NY

BRENDAN FLYNN — Chemistry Department,

Broome Community College

CAROLYNN FULLER — Arnot Ogden Medical Center,  
Elmira, NY

MARY GREENE — Our Lady of Lourdes Hospital

ROBERT LEVIN — Norwich-Eaton Pharmaceutical Company

HARRIET B. MARK — SUNY-Health Science Center at Syracuse

JULIA PEACOCK — Chairperson, Medical Laboratory

Technology, Broome Community College

WILLIAM TROLIO — Mary Imogene Bassett Hospital,

Cooperstown, NY

DAVID WALSH — Biological Sciences, Broome Community  
College

JOHN WALTERS — United Health Services

BARRY WINTERS — Cortland Memorial Hospital, Cortland, NY

DR. LOREN WOLSH — United Health Services

KENNETH WIGGINS — A.O. Fox Memorial Hospital

## Medical Laboratory Technology — Curriculum Requirement

The following coursework must be successfully completed to earn the A.A.S. degree in Medical Laboratory Technology:

			Hours per Week		Credits
General Education Requirements:*			Class	Lab	
ENG	110	Written Expression ...	3	0	3
LIT	200	Introduction to Literature, or Equivalent .....	3	0	3
Social Science/Civic Elective .....			6	0	6

### Math Requirement:

MAT	125	Statistics I Using Computers .....	3	1	3
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### Chemistry Requirements:

CHM	145	Chemistry .....	3	3	4
CHM	146	Chemistry .....	3	3	4
CHM	133	Survey of Organic Chemistry .....	3	4	4
CHM	220	Introduction to Instrumental Analysis	1	3	2

### Biology Requirements:

BIO	131	Human Biology I .....	3	2	4
BIO	132	Human Biology II .....	3	2	4

### Medical Laboratory Technology

#### Requirements:

			Hours/Day		Prac. Hours	No. of Weeks	Credits
			Class	Lab			
MLT	110	Introduction to Medical Laboratory Technology	1	0		1	
MLT	201	Hematology/ Coagulation .....	2	4	0	3	3
MLT	201P	Hematology/ Coagulation Practicum .....	0	0	30	3	3
MLT	202	Urinalysis/Body Fluids .....	2	4	0	1	1
MLT	202P	Urinalysis/Body Fluids Practicum .....	0	0	40	1	1
MLT	203	Microbiology .....	3	3	0	5	6
MLT	203P	Microbiology Practicum .....	0	0	40	2	2
MLT	204	Phlebotomy .....	0	0	38	N/A	1
MLT	205	Immunology .....	4	2	0	2	3
MLT	205P	Immunology Practicum .....	0	0	35	1	1
MLT	206	Immunohematology .....	2	4	0	2	2
MLT	206P	Immunohematology Practicum .....	0	0	35	2	2
MLT	207	Clinical Chemistry .....	2	4	0	5	5
MLT	207P	Clinical Chemistry Practicum .....	0	0	35	3	3

All classes, laboratories, and practicum sessions in the 200 level MLT courses listed above meet every school day for the number of weeks indicated. Practicum courses will be in affiliated hospitals. One group of students takes the group of courses listed immediately above in the fall and those far above in the spring. Another group will take the courses far above in the fall and those immediately above in the spring.

### GRADUATION REQUIREMENTS: 71 CREDITS

\*At least one "W" emphasis course and one designated "Civic Education" course must be completed.

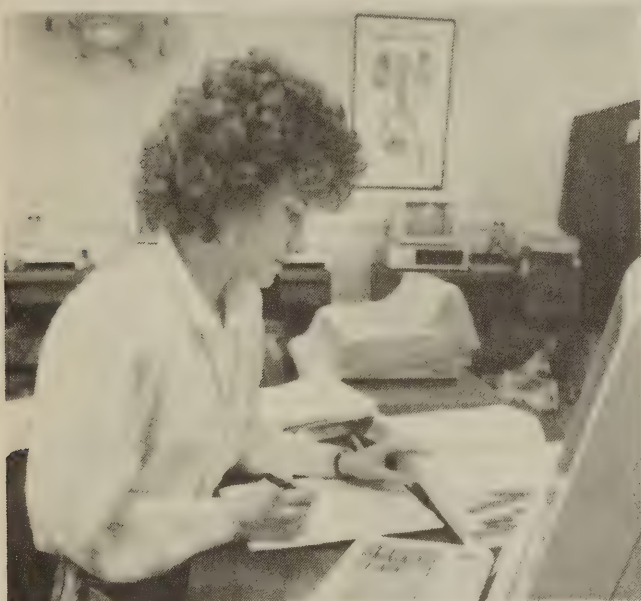
Affiliated hospitals generally require hepatitis vaccination or declination, prior to attendance in "P" Courses.



# HEALTH INFORMATION TECHNOLOGY

(Formerly Medical Record Technology)

DEPARTMENT CHAIRPERSON, Mary Rosato  
Business Building, Room 031  
Telephone 778-5051



A medical record is the permanent report of a person's illness or injury kept to preserve information of medical, scientific and legal value. The record includes all medical reports which describe how the patient's illness was diagnosed and treated. Medical records are needed to help doctors diagnose and treat future illness, to verify insurance claims, to plan hospitals, to inform the public health officials, and to aid researchers.

The medical record technician works in the health information department of a hospital, clinic, nursing home, school of veterinary medicine or other health facility and is responsible for many aspects of preparing, analyzing and preserving health information needed by the patients, by the hospital and by the public. The duties include reviewing medical records for completeness and accuracy and also translating diseases and operations into the proper coding symbols.

Other duties include filing medical records, preparing records for microfilm, typing reports of operations, X-rays and laboratory examinations, as well as histories, physical examinations and discharge summaries, compiling statistics of many kinds, assisting the medical staff by preparing special studies and tabulating data from records for research. Supervising the day-to-day operation of a health information department, taking records to court and maintaining the flow of the total work picture.

Practice in the college health information laboratory as well as in medical records departments of cooperating hospitals and other health care facilities, either within or outside the area, provides opportunities for additional educational experience which is the vital core of the program.

This curriculum is accredited by the Council on Accreditation of the American Health Information Association in collaboration with the Commission on the Accreditation of Allied Health Education Programs. Students in this program are eligible to take the Medical Record Accreditation Examination following graduation and upon completion receive the title of Accredited Record Technician (ART). Salaries for 1994 graduates ranged from \$13,488 to \$27,000 with an average of \$18,823. Graduates can continue medical record education toward a baccalaureate degree at four-year colleges.

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

			Hours per Week		Credits per Semester
			Class	Lab	
<b>FIRST YEAR</b>					
<b>Fall Semester</b>					
BIO	131	Human Biology I .....	3	2	4
ENG	110	Written Expression I	3	0	3
HIT	101	Intro to Health Information Systems	3	2	4
HIT	106	Medical Terminology	3	0	3
CST	105	Understanding Computers .....	2	2	3
			14	6	17

<b>Spring Semester</b>					
BIO	132	Human Biology II ....	3	2	4
HIT	222	Medical Legal Aspects	3	0	3
HIT	116	Health Care Statistics .	2	2	3
--		Social Science Electives	6	0	6
--		(Civic Elective (1W))			
HIT	144	Clinical Affiliation I ..	0	0	2
			14	4	18

## SUMMER TERM

-- Clinical Affiliation -- 40 hours per week for 2 weeks

## SECOND YEAR

<b>Fall Semester</b>					
BIO	140	Pathophysiology .....	3	0	3
HIT	203	Computers in Health Care .....	3	0	4
ENG	220	Communicating About Values .....	3	0	3
HIT	204	Inpatient Coding System	3	3	4
HIT	236	Quality Improvement	2	2	3
			14	5	16

## Spring Semester

HIT	210	Management Principles for HIT .....	2	2	3
HIT	295	Health Information Seminar .....	2	0	2
**HIT	245	Directed Practice .....	0	0	6
HIT	214	Ambulatory Care Coding	1	2	2
HIT	220	Alternate Care Records	2	0	2
			7	4	15

\*\*This course is conducted in a six-week block time frame. Students will be in a participating facility 5 days a week/8 hours a day.

SUGGESTED ELECTIVE(S): HIT 107 Medical Transcription  
DOT Word Processing/Keyboarding

## GRADUATION REQUIREMENTS: 66 CREDITS

### CURRICULUM ADVISORY COUNCIL HEALTH INFORMATION TECHNOLOGY

MARY CASTERLINE, A.R.T. -- Director, Medical Records,  
Willow Point Nursing Home  
DOROTHY ERNEY, R.R.A. -- Director, Medical Records,  
Binghamton Psychiatric Center  
LINDA SMITH - Practicare Medical Management Services  
SANDRA THOMPSON, R.R.A. -- Director of Medical Records  
Our Lady of Lourdes Hospital  
ELAINE TYLER, ART - Director, Medical Records  
Fairview Good Shephard  
STUDENT -- appointed annually  
MARY JO BOWIE, RRA, MS



# NURSING

DEPARTMENT CHAIRPERSON, Claire Ligeikis-Clayton  
901 Front Street  
Telephone 778-5060

Broome Community College offers a two-year, college-based curriculum to prepare graduates for immediate entrance into the entry level of registered nursing. Graduates of this curriculum are eligible to take the licensing examination for registered nurses. They are qualified for immediate employment in long term or acute nursing care, or they may wish to continue their education for the baccalaureate and higher degrees in the nursing field. The 1994 graduates of this program averaged \$24,828 in their starting salaries, which ranged from \$20,800 to \$26,670.

The curriculum operates as a college program, with classes and laboratories held on the campus. The clinical experiences, which are an integral part of the Nursing curriculum occur in affiliating hospitals, nursing homes and community agencies in the triple cities. Grading in the extended campus laboratory is on a satisfactory/unsatisfactory basis.

Enrollment in the Nursing curriculum requires that each student have a health form completed annually and submitted to the college prior to classes.

All students must also have CPR Certification (Basic Life Support), prior to attending classes. Recertification is required annually.

BCC Department of Nursing encourages enrollment of persons with diverse backgrounds, ages and experiences and cultures.

LPN's may apply for direct transfer credit and/or challenge first year nursing courses.

BCC Nursing Department also has articulation agreements with a variety of Bachelor of Science Nursing Schools which makes transfer into these programs a smooth transition.

This program is accredited by the National League for Nursing and registered by the New York State Education Department.

**NOTE:** Before enrolling in professional nursing courses students will be required to take a Nursing Math placement exam. Based on results of this exam, students may be placed in a nursing math course concurrent with ADN 100. Thereafter, each student enrolled in Nursing is expected to meet mathematics proficiency requirements.

**Sequence of Courses:** This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses. These students who wish part-time study may do so the first year. The second year is full-time study.

## CURRICULUM ADVISORY COUNCIL NURSING

ANTHONY DISSER — VP Nursing - United Health Services  
MARLENE BENSON — Nursing Faculty,  
Broome Community College  
WILLIAM BESTON — Dean of Applied Sciences Division,  
Broome Community College  
ANNETTE GOULD — Director, BOCES LPN Program  
JOANNE GUY — V.P. Nursing - Lourdes Hospital  
ANASTASIA KALECHITZ — Graduate of BCC Nursing  
Program  
SALLY HOFFMAN — Public Health Nurse  
Home Health Services, Broome County Health Dept.  
J. PATRICIA LEE — BCC Nursing Faculty - Broome  
Community College  
CLAIRE LIGEIKIS - CLAYTON — Chairperson, BCC  
Department of Nursing, Broome Community College  
JOANN MANIAGO — Student BCC Nursing program  
REGINA PEACOCK — Director of Nursing - Good Shepherd  
BLENDIA SMITH — Binghamton University - Nursing Faculty  
MARCIA SUTTER — Director of Nursing - Ideal Senior  
Living Center

FIRST YEAR		Hours per Week		Credits per Semester
		Class	Lab	
Fall Semester				
*ADN 105	Meeting Human Needs I	4	6	6
BIO 131	Human Biology I .....	3	2	4
PSY 110	General Psychology ...	3	0	3
ENG 110	Written Expression I .	3	0	3
		13	8	16
Spring Semester				
*ADN 106W	Meeting Human Needs II	4	6	6
ADN 298	Nursing Seminar III <sup>4</sup>	(1)	0	(1)
BIO 132	Human Biology II .....	3	2	4
PSY 210W	Developmental Psychology .....	3	0	3
— —	Social Science/Civic Elective .....	3	0	3
		13 (14)	8	16(17)
SECOND YEAR				
Fall Semester				
*ADN 211	Meeting Human Needs III	9	12	13
ADN 298	Nursing Seminar III <sup>4</sup>	(1)	0	(1)
BIO 150	Microbiology .....	3	2	4
		12(13)	14	17(18)
Spring Semester				
*ADN 213	Meeting Human Needs IV	9	12	13
ENG 220	Communicating About Values .....	3	0	3
		12	12	16

\*Clinical components run concurrently with lecture. In order to progress, students must pass a selected clinical component with each theory course.

### Notes:

1. In order to progress, students must complete assignments in the nursing skills center. Nursing Skills Center assignments are completed outside of class and clinical times.
2. Each student enrolled in Nursing is expected to meet the mathematics proficiency requirements at selected intervals during the program.
3. Clinical experiences for Nursing students may be scheduled during evening hours on their regular extended campus lab days.
4. ADN 298, Nursing Seminar III, is required of all returning, transfer and challenge students.
5. The Nursing program must be completed in 4 academic years.
6. In order to be eligible for licensure as a registered professional nurse, graduates must meet the criteria for good moral character as determined by New York State Education Dept. Candidates do not need to be a U.S. citizen.
7. There is a \$35 make-up fee for required clinical make-ups (see page 10 "College Fees").
8. Must meet College Civic Education Requirements.
9. Students must receive a "C" or better in all ADN courses in order to progress in the Nursing Program.

W - Writing Emphasis Course

**GRADUATION REQUIREMENTS: 65 CREDITS**



# PHYSICAL THERAPIST ASSISTANT

DEPARTMENT CHAIRPERSON, Denise M. Abrams, PT  
Students Affairs, Room 112  
Telephone 778-5211

The Physical Therapist Assistant is a skilled health technician who works under the supervision of a Physical Therapist. A planned patient care program is carried out by the assistant following established procedures. The extent to which the PTA is involved in treatment depends upon the policies of the facility of employment, the supervising therapist and the patient. Patients include people of all ages who are disabled by illness or accident or who were born with a handicap.

Treatments given by the PTA include exercises for increasing strength, endurance, coordination and range of motion; the use of heat, cold, electricity, sound and water to relieve pain and stimulate muscle activity; instruction in activities of daily living and the use of assistive devices such as walkers, crutches and wheelchairs. The PTA also assists the PT in performing tests, evaluations and complex treatment procedures as well as observing and reporting patient responses to treatment. The work setting may be hospital, nursing home, rehabilitation center or any other facility or area of practice where there is a supervising PT available.

The employment outlook for the PTA is excellent with salary levels that are competitive with or above that of the average community college graduate. At the present time there is a severe shortage of PT personnel nationwide and this shortage is expected to remain for some time to come. There is, however, competition for jobs in the Binghamton area.

The Physical Therapist Assistant program at Broome Community College is not designed as a transfer program to an upper division physical therapy program. However, if combined with an additional year of successful study in the liberal arts and sciences, it may serve as a vehicle for gaining entry into that highly competitive arena. The program consists of four semesters and one summer term after the second semester. All clinical skills laboratories that are part of the professional course work are graded on a pass/fail basis. All graduates will be licensed to practice as a Physical Therapist Assistant by the State of New York upon application and the payment of required fees. There is no licensing examination.

Clinical education is a necessary component of the program and is initiated after the second semester. Because of the need to schedule large blocks of time for the clinical education courses it may not be possible for students to pursue this program of study on a part-time basis after the second semester's work is completed. In addition, students may be required to travel some distance from home to meet this obligation.

**Thirty five hours of volunteer work in a facility providing Physical Therapy are required prior to enrollment in PTA Courses. Contact Department for information.**

## CURRICULUM ADVISORY COUNCIL PHYSICAL THERAPIST ASSISTANT

MARTHA GERTY, PT — Broome Developmental Center,  
Binghamton, New York  
DENISE JOHNSON, R.N. — Administrator - Vestal Nursing  
Center, Vestal, New York  
SALLY SPALIK, PTA — Our Lady of Lourdes Memorial  
Hospital, Binghamton, New York  
SUSAN RENDSBURG, PT — Rehabilitation Services, Inc.,  
Binghamton, New York  
MICHELE WILLIAMS — Head PT - Outreach Clinic of  
Lourdes Mem. Hospital, Endwell, New York  
CHARLES CROLL, MA — Professor of Social Science -  
Broome Community College, Binghamton, New York  
MARY MORE, MSN. — Assoc. Prof. Nursing - Broome  
Community College, Binghamton, New York  
VICTORIA RUPAKUS — Director of Rehabilitation Services,  
Our Lady of Lourdes Memorial Hospital,  
Binghamton, New York

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

			Hours per Week		Credits per Semester
			Class	Lab	
<b>FIRST YEAR</b>					
<b>Fall Semester</b>					
BIO	131	Human Biology I .....	3	26	4
ENG	110	Written Expression ...	3	0	3
PSY	110	General Psychology ...	3	0	3
PTA	100	Introduction to Physical Therapy I .....	4	0	4
PHY	118	Physics for Physical Therapist Assistants ..	3	2	4
			16	4	18

<b>Spring Semester</b>					
BIO	132	Human Biology II ....	3	2	4
PSY	210	Developmental Psychology .....	3	0	3
PTA	101	Introduction to Physical Therapy II ...	4	0	4
PTA	102	Introduction to Rehabilitation .....	3	3	4
PTA	103	Physical Agents and Massage .....	3	3	4
MDA	114	Standard First Aid Management of Emergencies .....	0	0	1
			16	8	20

### SUMMER TERM I

PTA	110	Clinical Affiliation <sup>1</sup> ....	0	30	2
3 wks./5 days per or					
		5 wks./3 days per .....	0	30	2

### SECOND YEAR

<b>Fall Semester</b>					
PTA	201	Kinesiology .....	3	3	4
PTA	202	Therapeutic Exercise	3	3	4
PTA	210	Clinical Affiliation ....	0	12	4
ENG	220	Communicating About Values .....	3	0	3
			9	18	15

### Spring Semester

PTA	213W	Senior Seminar <sup>2</sup> .....	9-12	0	5
PTA	220	Clinical Affiliation <sup>4</sup> ....	0	40	6
PTA	224	Senior Seminar II <sup>3</sup> ....	9-12	0	1
Elective from Civic Education Course offerings <sup>2</sup> .....			3	0	3
			9-15	40	15

#### Notes:

1. See the course description for clinical affiliation coursework.
2. These courses are conducted in a seven-week block at the beginning of the semester.
3. This course is conducted in a two-week block at the end of the semester.
4. This course is a full-time clinical experience for six weeks and may be at an out-of-town location. Students are responsible for their own transportation and housing arrangements.
5. PTA students must enroll in a special lab which includes additional hours.

### GRADUATION REQUIREMENTS: 70 CREDITS

A minimum grade of C in each PTA course is required in order for a student to progress in the PTA curriculum.



# RADIOLOGIC TECHNOLOGY

DEPARTMENT CHAIRPERSON, Nancy Button  
Business Building, Room 023  
Telephone 778-5070

Radiologic Technology is a diverse profession. The radiographer must draw from the fields of communication, psychology, photography and the physical and biologic sciences, while utilizing an investigative approach to perform the daily tasks. Radiographers are in demand in nearly every community - in hospitals, physicians' offices, clinics, government, education, industry and research.

The typical role of the radiographer consists of producing radiographs used in the diagnosis of disease and injury. In producing radiographs, the radiographer operates x-ray equipment, provides patient care, provides radiation protection, positions the patient for the examination, selects technical factors for radiographic quality, produces and processes radiographs, maintains quality control and also maintains patient records. Other duties include use of mobile X-ray equipment in the operating room, emergency room and at the patient's bedside.

A radiographer may continue education in areas such as sonography, nuclear medicine, cardiovascular interventional techniques, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), departmental administration, research, education and radiation therapy.

The Radiologic Technology program at Broome Community College consists of two years of combined academic and clinical education, the equivalent of 24 calendar months. Clinical education is provided in one of our cooperating hospitals. Based on a 40 hour/week schedule, students spend approximately one-third of their time in professional and general education courses at the college. The remaining two-thirds is spent in the college laboratory or in the hospital, obtaining a complete range of supervised clinical experiences including new imaging modalities.

The clinical experience is a viable part of the educational process. Upon completion of the required hours of clinical practice as well as the academic requirements of the program, the graduate is eligible to sit for the examination of the American Registry of Radiologic Technologists for certification and New York State licensure.

The curriculum is accredited by the Joint Review Committee on Education in Radiologic Technology.

Starting salaries for the 1992 graduates ranged between \$19,800 and \$32,000, with an average of \$24,600.

## CURRICULUM ADVISORY COUNCIL RADIOLOGIC TECHNOLOGY

ANDREW ADAMS, M.D. — Medical Advisor - Binghamton, NY  
THOMAS CARPENTER (R) — Our Lady of Lourdes Hospital -  
Department of Radiology  
DAVETTE CUMMINGS, R.T. (R) — Wilson Memorial Hospital,  
Department of Radiology  
FRANK EMICK, R.T. (R) — Binghamton General Hospital,  
Department of Radiology  
NANCY BUTTON, R.T. (R) — Chairperson, Radiologic Technology  
Department, Broome Community College  
ROBERT KNACK, M.D. — Our Lady of Lourdes Hospital -  
Department of Radiology  
EDWIN LIS — Radiology Business Manager,  
Wilson Memorial Hospital  
DAVID LISI, M.D. — Binghamton General Hospital  
FREDERICK PHEIFFER, R.T. (R) - Binghamton General Hospital  
Department of Radiology  
DOUGLAS ROBERTSON, R.T. (R) — Mary Imogene Bassett  
Hospital, Department of Radiology  
DANIEL WENCK, R.T. (R) — Mary Imogene Bassett Hospital,  
Department of Radiology  
BRIAN WETZEL, R.T. (R) — Wilson Memorial Hospital  
SHAWN ZYCH, R.T. (R) — Supervisor - Our Lady of Lourdes  
Hospital, Department of Radiology  
STUDENTS — appointed annually

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

			Hours per Week		Credits per Semester
FIRST YEAR			Class	Lab	
Fall Semester					
BIO 131	Human Biology .....	3	2		4
ENG 110	Written Expression I .....	3	0		3
RAD 100	Introduction to Radiologic Technology .....	3	0		3
RAD 101	Radiologic Technology I .....	3	1		3
RAD 103	Positioning I .....	0	6		2
RAD 110	Patient Care .....	1	1		1
RAD 115	Radiation Protection I .....	0	1		
			14	10	17

### WINTER TERM I

\*RAD 131 Clinical Education I. (40 hours per week)

### Spring Semester

BIO 132	Human Biology II .....	3	2		4
SOC 111	Social Problems .....	3	0		3
SOS 120	Science, Technology & Society .....	3	0		3
PHY 121	Physics for Radiographers .....	3	2		4
RAD 102W	Radiologic Technology II .....	3	1		3
RAD 104	Positioning II .....	0	3		1
RAD 132	Clinical Education II .....	0	16		2
			12	24	17

### SUMMER I

\*RAD 131 Clinical Education III 0 40 3

### SECOND YEAR

#### Fall Semester

PSY 110	General Psychology ...	3	0		3
RAD 204	Advanced Positioning	0	3		1
RAD 201	Radiologic Technology	3	0		3
RAD 230	Clinical Education IV	0	24		3
ENG 220	Communicating About Values .....	3	0		3
CST 105	Understanding Computers .....	2	2		3
			11	29	16

### WINTER II

\*RAD 231 Clinical Education V. (40 hours per week)

RAD 216 Imaging Modalities ... 1 0 1

### Spring Semester

RAD 225W	Special Radiographic Procedures .....	3	0		3
RAD 220	Radiologic Pathology	2	0		2
RAD 232	Clinical Education VI	0	24		3
RAD 245	Radiobiology .....	2	0		2
RAD 250	Image Assessment .....	2	1		2
RAD 295	Seminar in Radiography	2	0		2
			11	25	14

### SUMMER II

\*RAD 233 Clinical Education VII 0 40 3

**\*Successful achievements is a GRADUATION REQUIREMENT**

**GRADUATION REQUIREMENTS: 71 CREDITS**



# TECHNOLOGIES, ENGINEERING AND COMPUTING

In the area of technical education, the College offers 9 programs. One, Engineering Science, is in effect the first two years of an engineering curriculum. Students who do satisfactory work in it should experience little difficulty in transferring to engineering colleges at the third-year level.

Four others are designed to educate engineering technicians in the fields of Chemical Engineering Technology, Civil Engineering Technology, Electrical Engineering Technology and Mechanical Engineering Technology. Students in these programs are prepared for employment in various types of technical work immediately after graduation, although many students do transfer to four-year colleges.

The Computer Studies Department offers three programs — Computer Science, Computer Technology and Computer Information Systems. The Computer Science program is designed to prepare graduates for transfer to four-year colleges, while graduates of the other two are prepared for immediate employment or possible transfer.

Additionally, the College offers a program in Industrial Technology.

## CHEMICAL ENGINEERING TECHNOLOGY

DEPARTMENT CHAIRPERSON, Brendan R. Flynn  
Science Building, Room 108, Telephone 778-5009

The Chemical Engineering Technology curriculum is designed to meet the increasing demand for chemical technicians. Graduates are qualified for immediate gainful employment. Many of them have also continued their studies toward advanced degrees in chemistry and chemical engineering at the junior level either as full-time students or on a part-time basis while employed. This background makes the Chemical Engineering Technology graduate highly sought after by employers and concurrently affords them the flexibility to advance academically and professionally.

Chemical technicians of both sexes have filled a vital manpower need in companies and organizations where background in various areas of chemistry is necessary or desirable. The Chemical Engineering Technician has opportunities to be employed in a wide variety of fields such as environmental analysis, petroleum and other forms of energy, pharmaceuticals, plastic rubber, pulp and paper, and biological and electronic materials. Non industrial job opportunities exist in medical laboratories, municipal health and sanitation agencies, and state and federal environmental agencies.

Employers of chemical technicians include IBM (Endicott, Vermont, Mass., and Austin), Anitec, NYSE&G, Corning Glass, Martin Marietta, Norwich-Eaton Pharmaceuticals, Sandia, Hadco, Bendix, Chenango Industries, International Paper, Eastman Kodak, Union Carbide, Grumman Aerospace, Sandoz Pharmaceuticals and many others.

Initial positions are usually in a research, development, process quality control or analytical laboratory or in a pilot plant. In these positions a chemical technician may work for a senior staff member or be a member of a group working in a particular area. Experienced chemical technicians have become supervisors, group leaders, technical salesmen, and research and development technicians.

The 1994 graduates of this program received starting salaries ranging from \$22,000 to \$25,900.

This curriculum is accredited by the Technology Accreditation Commis-

sion of the Accreditation Board of Engineering and Technology (TAC/ABET), and it leads to an Associate in Applied Science degree.

Each year a limited number of scholarships are awarded by the department. Second year students are also eligible for co-op employment at local industries.

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR		Hours per Week		Credits per Semester
		Class	Lab	
Fall Semester				
ENG 110	Written Expression I ....	3	0	3
CHM 161	Chemistry .....	3	4	4
*MAT 161	Pre-Calculus .....	4	0	4
PHY 161	Physics I .....	3	3	4
		13	7	15

<b>Spring Semester</b>				
ENG 150	Technical Writing .....	3	0	3
CHM 162W	Chemistry .....	3	4	4
*MAT 162	Applied Calculus .....	4	0	4
PHY 162	Physics II .....	3	3	4
CST 140	Computer for Chemists .....	2	2	3
		15	9	18

<b>SECOND YEAR</b>				
<b>Fall Semester</b>				
CHM 251	Chemical Engineering Tech Seminar .....	1	0	1/2
CHM 261	Organic Chemistry .....	3	6	5
CHM 265	Analytical Chemistry ....	3	6	5
CHM 271	Chemical Processes .....	3	4	5
‡ —	Social Science Elective .....	3	0	3
		13	16	18 1/2

<b>Spring Semester</b>				
CHM 262	Organic Chemistry .....	3	6	5
CHM 266	Instrumental Analysis ..	3	6	5
CHM 272	Chemical Processes .....	3	4	5
— —	Social Science Elective .....	3	0	3
		12	16	18

### GRADUATION REQUIREMENT: 69 1/2 CREDITS

\*or MAT 181-182 Calculus with Analytic Geometry I and II

W - Writing Emphasis Course: Two Required

‡One must be chosen from ECO 110/111, HIS 130/131, POS 201/204, SOS 111/120

### CURRICULUM ADVISORY COUNCIL

#### CHEMICAL ENGINEERING TECHNOLOGY

DONALD FUREY — Eastman Kodak Company  
DR. BRUCE RESNIK — Anitec Image Corp.  
JAMES LAMPHERE — New York State Electric and Gas  
DR. LOUIS LIETO — Director, Anti-Infective Product Development - Norwich-Eaton Pharmaceuticals  
JAMES SHURTLEFF, P.E. — Development Engineer, Impregnation/Dim-Stab - IBM Corporation  
BRIAN E. STUTTS PH.D. — Manager, Process Engineering - Corning Glass Works  
DR. WILLIAM WITTOSCH — Manager, Employee Training and Development - International Paper Company



# CIVIL ENGINEERING TECHNOLOGY



Mechanical Building, Room 117  
Telephone 778-5010

The Civil Engineering Technology curriculum at Broome Community College is designed to educate engineering technicians for employment in the civil engineering, architectural and surveying professions, and the construction industry. Civil engineering technicians are trained to work in the planning, design and construction of facilities and systems that are basic to industry, commerce and community living and to the welfare of people. Thus the graduates are prepared to work in the following areas:

Architectural Drawing-Design and CAD  
Construction (Inspection-Estimating-Project Management)  
Plane and Route Surveying  
Structural Design Concepts

Starting positions may be in computer aided design (CAD), drafting design, estimating, testing of materials, specification writing, construction inspection, surveying, field engineering, sales and insurance adjusting. Excellent opportunities exist for advancement and promotion.

Graduates of the program last year averaged \$23,206 in starting salaries and over the last two years salaries averaged \$23,577.

The Civil Engineering Technology Department offers the Associate in Applied Science degree in Civil Engineering Technology. This degree is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET).

Graduates of the program are eligible to become certified as Associate Engineering Technicians by the Institute for the Certification of Engineering Technicians. (NICET)

Job opportunities exist locally, statewide and nationally for technicians regardless of gender. Graduates are employed by both large and small companies, and public agencies.

About 30% of the graduates transfer into Bachelor level programs.

In order for students to complete the curriculum in two years, the proper preparation is necessary. The minimum prerequisites are high school intermediate algebra, trigonometry and regents physics or their equivalents.

The curriculum is a broad-based program of study with considerable computer utilization infused into the course work.

## CURRICULUM ADVISORY COUNCIL CIVIL ENGINEERING TECHNOLOGY

JAMES BRYDEN AIA — Bryden Architects  
RICHARD P. CHURCH — Regional Director, Department of  
Transportation, P.E.  
THOMAS S. COUGHLIN — President, EMJ/McFarland-Johnson  
Engineers, Inc. P.E.  
GEORGE B. STEPHENS — Exec. Dir., Assoc. Bldg. Contractors  
WILLIAM LANE — President, William Lane, General Contractors  
DENNIS T. O'DEA — Project Engineer, NYSEG, P.E.  
GARY WOOD — Consulting Engineer, P.E.

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR		Hours per Week		Credits per Semester
Fall Semester		Class	Lab	
CIV 111	Surveying I .....	2	6	4
CIV 115	Engineering Drawing I .....	1	3	2
CIV 110	Introduction to Technologies .....	1	0	1/2
ENG 110	Written Expression I ....	3	0	3
†MAT 161	Pre-Calculus .....	4	0	4
*PHY 161	Physics I .....	3	3	4
		14	12	17 1/2
Spring Semester				
CIV 112	Surveying II .....	1	3	2
CIV 119	Architectural Drafting .	0	4	2
CIV 124	Mechanics .....	3	0	3
†MAT 162	Applied Calculus or MAT 181 .....	4	0	4
PHY 162	Physics II .....	3	3	4
ENG 150	Technical Writing .....	3	0	3
		14	10	18

\* Students entering the program without physics may elect to take PHY 090 Preparatory Physics I during the first semester in place of PHY 161 Physics. PHY 161 Physics I may be taken during the spring semester and PHY 162 Physics II and CIV 124 Mechanics during the summer. This will allow the student to graduate on schedule. Preparatory Physics is not applicable toward the degree.

† Transfer students should consider the MAT 181-182 Calculus with Analytic Geometry I and II sequence.

## SECOND YEAR

<b>Fall Semester</b>				
CIV 219	Strength of Materials ...	4	0	4
CIV 217W	Materials Testing .....	2	3	3
CST 122	Scientific Computer Programming FORTRAN .....	2	2	3
‡ — —	Social Science Elective .....	3	0	3
	Technical Elective (Choose 1)			
CIV 238	Architectural Design and Building Materials .....	(2)	(3)	(3)
CIV 205	Intro. to Computer Graphics with Arch. Applications .....	(2)	(3)	(3)
**MAT	Mathematics Elective ...	(4)	(0)	(4)
		13-15	5-8	16-17
<b>Spring Semester</b>				
CIV 224	Reinforced Concrete Design .....			
	or .....	2	3	3
CIV 226	Structural Steel Design .....			
CIV 216	Route Surveying .....	2	3	3
CIV 231	Estimating and Construction Planning .....	2	3	3
CIV 240	Soil Mechanics .....	2	3	3
‡ — —	Social Science Elective .....	3	0	3
	Approved Technical Elective .....	2-4	0-3	3-4
		13-15	12-15	18-19

Technical Electives:

CIV 224 Reinforced Concrete Design  
or  
CIV 226 Structural Steel Design  
CIV 236 Construction Management  
CIV 237 Hydraulics  
CAD CAD Elective  
\*\*MAT Mathematics Elective

\*\*For students planning to transfer to a four (4) year college. Prior approval by department chair is required to take a more advanced Calculus course.

W - Writing Emphasis Course: Two Required  
‡ One must be chosen from: ECO 110/111, HIS 130/131,  
POS 201/204, SOC 110/111, SOS 111/120.

GRADUATION REQUIREMENTS: 69-1/2 CREDITS



# COMPUTER STUDIES



DEPARTMENT CHAIRPERSON, David McLaughlin  
Applied Technology Building, Room 011  
Telephone 778-5022

The Computer Studies Department offers three different degree programs. Additionally, if a student is lacking required prerequisites for one of the three degree-granting programs, a student can be admitted as a Pre-Computer Studies student and take preparatory courses until the requirements are met. In each degree program, the student will learn to write modular structured programs which are well documented and easy to read and maintain. All courses will emphasize the importance of written and oral communication.

Students who choose a career in computing must, above all else, have the ability to think logically. They should be interested in organizing and analyzing information and should be able to pay close attention to detail and accuracy. Interesting and exciting careers are ahead for the student who has the personal drive to explore new fields of application and the ability to communicate with computer users.

The three degree programs are described below. The entrance requirements for each program are detailed on page 9 of this catalog. Typical four semester course sequences are shown on the pages following this one.

Part-time student programs are developed on an individual basis with the assistance of an academic advisor.

**THE COMPUTER SCIENCE PROGRAM** is designed to prepare graduates to transfer to four-year colleges and continue work toward a Bachelor of Science degree in Computer Science or Computer Information Systems. During the first semester the student selects an emphasis (mathematics, technical, or information systems) and is encouraged to investigate transfer colleges and select elective courses with a future career in mind. The emphasis on mathematics, structured programming, science, and data structures allows transfer with Junior standing. Graduates who wish to postpone transfer can find interesting employment opportunities.

**THE COMPUTER TECHNOLOGY PROGRAM** places less emphasis on mathematics and more on computer hardware, digital logic and microprocessors. Graduates are prepared to work in a technical environment where a knowledge of the interface between hardware and software is necessary. Starting positions include computer operator, technician, engineering aide, associate field engineer. Average starting salary is about \$17,000. Graduates often find that more education is desirable. Transfer to four-year schools is possible and elective courses can be selected to allow transfer with Junior standing.

**THE COMPUTER INFORMATION SYSTEMS PROGRAM** places emphasis on the partnership between information systems and solving business problems. Graduates are prepared to work in a business environment where a knowledge of computer programming and application software is necessary. Starting positions include computer operator, junior programmer, data entry technician, information processing equipment

operator. Average starting salary is about \$15,000. This program meets the requirements of the DPMA (Data Processing Management Association) Model Curriculum for Computer Information Systems. With proper choice of electives, graduates who find that more education is desirable will be able to transfer credits to institutions offering this four-year degree.

**COMPUTER STUDIES** preparatory courses are for students not prepared for entry into the regular Computer Science, Computer Technology or Computer Information Systems program. Students who have not completed required high school subjects, such as Course I, II, and III Math, may be admitted to the department as Preparatory Computer Science students. Students in this category will take additional semesters of course work to prepare them for the standard Computer Studies curricula. Each student will be tested in the College Learning Center prior to scheduling to determine which level of Math and English courses is needed. Students who have not completed a high school computer course will be required to take one or more introductory computer courses. Students planning on enrolling in the Computer Technology or Computer Science Programs who have not completed high school Physics will be required to take preparatory physics. The actual student schedule will be personalized by the department for each entering student depending on his/her Math, English and/or Science abilities. All courses taken to meet prerequisite requirements will not count as credit towards the three different degree programs.

**STUDENTS CAN ATTEND FULL-TIME OR PART-TIME BOTH DAY AND EVENING**

## PREPARATORY COURSES FOR COMPUTER STUDIES

The listing below shows some typical courses taken by students not prepared for immediate entry into the Computer Studies Program:

			Class	Lab	Credits
CST	105	Understanding Computers .....	2	2	3
CST	115	Introduction to Pascal .....	2	2	3
CST	121	Programming for Students of Technology .....	2	2	3
ENG	090	Basic Language Skills .....	4	0	0
MAT	090	Arithmetic/Lang. of Alg. ....	4	0	0
MAT	092	Intro. to Concepts of Algebra .....	4	0	0
MAT	099	Elementary Algebra .....	5	0	0
MAT	139	Algebra .....	4	0	4
MAT	140	Trigonometry .....	4	0	4
MAT	161	Pre-Calculus .....	4	0	4
PHY	090	Prep. Physics .....	4	0	0



# COMPUTER SCIENCE

## Associate in Science Degree



The listing below shows the degree requirements. Electives are determined by the emphasis chosen. Students may select from Information Systems, Technical, and Mathematics emphasis shown on the following pages.

	Credits
CST 117 Language Independent Design Tools .....	2
CST 119 Computer Concepts and Applications .....	3
CST 132 Structured Programming in Pascal .....	4
MAT or Electives .....	9-10
CST Electives must include either	
CST 202W Data Structures with C/C ++	
or	
CST 218W Advanced Cobol	
MAT 181 Calculus I with Analytic Geometry .....	4
MAT 182 Calculus II with Analytic Geometry .....	4
MAT 250 Discrete Mathematics .....	4
*MAT 264 Linear Algebra .....	4
Laboratory Science Sequence .....	8
A full year sequence of physics, chemistry	
or physical science. Acceptable sequences:	
PHY 161-162, PHY 181-182 Physics	
CHM 145-146 Chemistry	
PHS 113-114-115-116-215 Physical Science (any 2)	
ENG 110 Written Expression .....	3
ENG 220 Communicating About Values .....	3
Social Science (one must be a "W" emphasis) .....	6
Choose from ANT, ECO, GEO, POS, PSY, SOC, SOS.	
One Course must be from the following:	
ECO 110/111, HIS 130/131, POS 201/204,	
SOC 110/111, SOS 111/120/130.	
History .....	3
PHI 202 Logic .....	3
Physical Education .....	2
Approved Electives .....	6-10
See emphasis for recommended electives. All others must be approved by the Department Chairperson.	

### GRADUATION REQUIREMENTS: 69-72 CREDITS

W - Writing Emphasis Course	
*Math 264 Linear Algebra .....	4 or
CST 228 GDI Programming with C/C ++ .....	3 or
CST 200 Systems Analysis .....	3

# COMPUTER SCIENCE

## Information Systems Emphasis

### Associate in Science Degree

FIRST YEAR	Fall Semester		Hours per Week		Credits per Semester
			Class	Lab	
	CST 101	Orientation .....	1	0	0
	CST 117	Language Independent Design Tools .....	2	0	2
	CST 119	Computer Concepts and Applications .....	2	2	3
	CST 132	Structured Prog. in Pascal .....	3	2	4
	ENG 110	Written Expression .....	3	0	3
	MAT 181	Calc I w/Analyt Geometry .....	4	0	4
	*---	Social Science Elective .....	3	0	3
			18	4	19
<b>Spring Semester</b>					
	CST 128	Structured Prog with COBOL .....	3	2	4
	HIS	History Elective .....	3	0	3
	MAT 182	Calc II w/Analyt Geometry .....	4	0	4
	PHI 202	Logic .....	3	0	3
	*---	Social Science W			
		Elective .....	3	0	3
†PED		Physical Education			
		Electives .....	0	2	1
			16	4	18
<b>SECOND YEAR</b>					
<b>Fall Semester</b>					
	CST 218W	Advanced COBOL .....	2	2	3
	MAT 250	Discrete Mathematics ..	4	0	4
	BUS 100	Accounting I .....	4	0	4
	---	Lab Science			
		(begin sequence) .....	3	3	4
	CST 200	Systems Analysis .....	2	2	3
		or			
	MAT 264	Linear Algebra .....	4	0	4
			15-17	5-7	18-19
<b>Spring Semester</b>					
	ENG 220	Communicating About Values .....	3	0	3
	BUS 101	Accounting II .....	4	0	4
	---	Lab Science			
		(complete sequence) ....	3	3	4
	MAT/or				
	CST	Elective .....	2-4	0-4	3-4
	PED	Physical Education			
		Electives .....	0	2	1
			12-14	5-9	15-16

### GRADUATION REQUIREMENTS: 71-72 CREDITS

\* One Course must be from the following: ECO 110/111, HIS 130/131, POS 201/204, SOC 110/111, SOS 111/120.

W - Writing Emphasis Course: Two Required

†One credit must be chosen from: PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 173.

See General Education Requirements on page 25.



# COMPUTER SCIENCE

## Mathematics Emphasis

### Associate in Science Degree

			Hours per Week		Credits per Semester
			Class	Lab	
<b>FIRST YEAR</b>					
<b>Fall Semester</b>					
CST 101	Orientation .....		1	0	0
CST 117	Language Independent Design Tools .....		2	0	2
CST 119	Computer Concepts and Applications .....		2	2	3
CST 132	Structured Prog. in Pascal		3	2	4
ENG 110	Written Expression .....		3	0	3
MAT 181	Calc I w/Analyt Geometry		4	0	4
*—	Social Science Elective		3	0	3
			18	4	19
<b>Spring Semester</b>					
CST 155	C/C++ Programming with Objects .....		3	2	4
HIS	History Elective .....		3	0	3
MAT 182	Calc II w/Analyt Geometry .....		4	0	4
CST 170	Digital Logic .....		2	2	3
*—	Social Science Elective .....		3	0	3
PED	Physical Education Electives .....		0	2	1
			15	6	18
<b>SECOND YEAR</b>					
<b>Fall Semester</b>					
CST 202W	Data Structures with C/C++ .....		2	2	3
MAT 250	Discrete Math. ....		4	0	4
MAT 281	Calc. III/w Ana. Geometry .....		4	0	4
PHY 161	Physics I .....		3	3	4
ENG 220	Communicating about values .....		3	0	3
			16	2	18
<b>Spring Semester</b>					
MAT 264	Linear Algebra .....		4	0	4
MAT 266	Intro. to Higher Math .....		3	0	3
PHY 162	Physics II .....		3	3	4
CST	Approved Elec. .... or		(2)	(2)	(3)
MAT 282	Differential Equations .....		(4)	(0)	(4)
PHI 202	Logic .....		3	0	3
PED	Physical Education Electives .....		0	2	1
			16-17	5-7	18-19

### GRADUATION REQUIREMENTS: 69-70 CREDITS

\* One Course must be from the following: ECO 110/111, HIS 130/131, POS 201/204, SOC 110/111, SOS 111/120.

‡Choose one credit from: PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 148, 173

W - Writing Emphasis Course: Two Required

See General Education Requirements on page 25.

# COMPUTER SCIENCE

## Technical Emphasis

### Associate in Science Degree

			Hours per Week		Credits per Semester
			Class	Lab	
<b>FIRST YEAR</b>					
<b>Fall Semester</b>					
CST 101	Orientation .....		1	0	0
CST 117	Language Independent Design Tools .....		2	0	2
CST 119	Computer Concepts and Applications .....		2	2	3
CST 132	Structured Prog. in Pascal		3	2	4
CST 170	Digital Logic .....		2	2	3
ENG 110	Written Expression .....		3	0	3
MAT 181	Calc I w/Analyt Geometry .....		4	0	4
			17	6	19
<b>Spring Semester</b>					
CST 155	C/C Programming with Objects .....		3	2	4
CST 220	Microproc & Assembly Language .....		2	2	3
*—	Social Science Elective		3	0	3
MAT 182	Calc II w/Analyt Geometry .....		4	0	4
PHI 202	Logic .....		3	0	3
‡PED	Physical Education Electives .....		0	2	1
			15	6	18
<b>SECOND YEAR</b>					
<b>Fall Semester</b>					
CST 225W	Introduction to Small Systems .....		2	2	3
MAT 250	Discrete Mathematics ..		4	0	4
PHY 161	Physics I .....		3	3	4
CST 202W	Data Structures with C/C++ .....		2	2	3
*—	Social Science Elective		3	0	3
			14	7	17
<b>Spring Semester</b>					
**MAT 264	Linear Algebra or .....		4	0	4
**CST 228W	GDI Programming with C/C++ .....		2	2	3
PHY 162	Physics II .....		3	3	4
ENG 220	Communicating About Values .....		3	0	3
PED	Physical Education Elective .....		0	2	1
HIS	History Elective .....		3	0	3
			15	7	18

### GRADUATION REQUIREMENTS: 71-72 CREDITS

\* One Course must be from the following: ECO 110/111, HIS 130/131, POS 201/204, SOC 110/111, SOS 111/120.

\*\* Students intending to transfer to Binghamton University should elect MAT 264.

W - Writing Emphasis Course: Two Required

‡Approved Electives:  
CST 155, CST 158, CST 160, CST 180, CST 181, CST 200, CST 201W, CST 213, CST 214, CST 222, CST 228, CST 297, MAT 125. Others require permission of Department Chairperson.

‡Choose one credit from: PED 118, 119, 127, 135, 137, 144, 146, 147, 148, 173.

See General Education Requirements on page 25.



# COMPUTER TECHNOLOGY

## Associate in Applied Science Degree

FIRST YEAR			Hours		Credits per Semester
			per Week		
Fall Semester			Class	Lab	
CST 101	Orientation .....		1	0	0
CST 117	Language Independent Design Tools .....		2	0	2
CST 119	Computer Concepts and Applications .....		2	2	3
CST 132	Structured Prog. in Pascal .....		3	2	4
CST 170	Digital Logic .....		2	2	3
ENG 110	Written Expression .....		3	0	3
PHY 161	Physics I .....		3	3	4
			16	9	19
Spring Semester					
MAT 125	Statistics I Using Computers .....		3	1	3
CST 155	C/C++ Programming with Objects .....		3	2	4
*— —	Social Science Elective .....		3	0	3
CST 220	Microproc & Assembly Language .....		2	2	3
PHY 162	Physics II .....		3	3	4
			14	8	17
SECOND YEAR					
Fall Semester					
CST 225	Introduction to Small Systems .....		2	2	3
MAT 145	Finite Mathematics .....		3	0	3
CST 202W	Data Structures with C/C++ .....		2	2	3
CST 200	Systems Analysis I .....		2	2	3
*— —	Social Science Elective .....		3	0	3
			12	6	15
Spring Semester					
ENG 220	Communicating About Values .....		3	0	3
CST 160	ADA Programming .....		2	2	3
CST 228W	GDI Programming with C/C++ .....		2	2	3
†— —	Approved Elective .....		2-4	0-2	3-4
SPK 102	Effective Speaking .....		3	0	3
			12-14	2-8	15-16

### GRADUATION REQUIREMENT: 65-67 CREDITS

†Approved Electives:

CST 158, CST 201W, CST 213, CST 214, CST 222, CST 297, MAT 161, MAT 181, MAT 182. Others require permission of Department Chairperson.

\* One Course must be from the following: ECO 110/111, HIS 130/131, POS 201/204, SOC 110/111, SOS 111/120.

W - Writing Emphasis Course: Two Required

See General Education Requirements on page 25.

# COMPUTER INFORMATION SYSTEMS

## Associate in Applied Science Degree

FIRST YEAR			Hours		Credits per Semester
			per Week		
Fall Semester			Class	Lab	
CST 101	Orientation .....	1	0	0	
CST 117	Language Independent Design Tools .....	2	0	2	
CST 119	Computer Concepts and Applications .....	2	2	3	
CST 115	Intro. to Pascal .....	2	2	3	
ENG 110	Written Expression .....	3	0	3	
BUS 100	Accounting I .....	4	0	4	
ECO 110	Microeconomics .....	3	0	3	
			17	4	18
Spring Semester					
CST 128	Structured Programming in COBOL .....	3	2	4	
CST 158	Spreadsheets - Financial Applications .....	2	2	3	
ECO 111	Macroeconomics .....	3	0	3	
MAT 125	Statistics I Using Computers .....	3	1	3	
BUS 101	Accounting II .....	4	0	4	
			15	5	17
SECOND YEAR					
Fall Semester					
CST 200	Systems Analysis I .....	2	2	3	
CST 213	Database Systems .....	2	2	3	
BUS	Elective .....	3	0	3	
**PHS	Physical Science Elective .....	3	3	4	
CST 218W	Advanced COBOL .....	2	2	3	
			12	9	16
Spring Semester					
SPK 102	Effective Speaking .....	3	0	3	
CST 201W	Systems Analysis II .....	2	2	3	
CST 214	Computer Operations: Procedures and Management .....	2	2	3	
CST/MAT/ BUS Elective .....		2-4	0-2	3-4	
ENG 220	Communicating About Values .....	3	0	3	
			12-14	4-6	15-16

### GRADUATION REQUIREMENT: 66-67 CREDITS

\*\*ANY ONE of the following physical science courses: PHS 113, 114, 115, 116, 215

MAT Electives: MAT 145 or higher

CST Electives: CST 116, CST 121, CST 155, CST 160, CST 170, CST 202, CST 222.

BUS Electives: Bus 116 or higher.

W - Writing Emphasis Course: Two Required.

See General Education Requirements on page 25.



# ELECTRICAL ENGINEERING TECHNOLOGY

DEPARTMENT CHAIRPERSON, Alan C. Dixon  
Applied Technology Building, Room 201  
Telephone 778-5017

The Electrical Engineering Technology program at Broome Community College is made up of a planned sequence of college level courses leading to the Associate in Applied Science Degree. Engineering Technology emphasizes both the theory and application of established scientific and engineering methods and prepares the student for immediate employment or for transfer to an upper division school upon graduation. Students are prepared for general work in Electrical Engineering Technology and are able to select one of three emphasis areas: Robotics, Electronic Communications, or Micro-computers.

The graduate is prepared to be the intermediary between the design engineer and skilled craftsman. EETs translate problems into solutions by building equipment using their knowledge of mathematics, physics, linear and digital electronics, microprocessor hardware and software, machines, robotics, process control, circuit analysis, and computer programming languages. This occurs whether working in a small company as the only technician or in a large company as part of a team. Both men and women find rewarding careers through this program.

This program may require longer than two years to complete if an entering student has not completed Math I, II, III and physics in high school. Students lacking any of these courses enter our pre-electrical technology program and may be required to take MAT 099 Elementary Algebra to prepare them for MAT 139 College Algebra and MAT 140 Trigonometry or PHY 090 Preparatory Physics and EET 110 Introduction to Electricity to prepare for Electrical Circuits and College Physics.

Graduates work for companies like New York State Electric and Gas, International Business Machines, Xerox, Eastman Kodak, Martin Marietta, Universal Instruments, Link/Miles Flight Simulation, Bell Laboratories, Raymond Corporation, Sandia National Laboratory, Digital Equipment Corporation, and Corning Glass.

Starting positions include engineering assistant, technical specialist for electronics, computers, field service, or sales.

Many graduates find that more education is desirable and have successfully completed advanced study at State University of New York Colleges at Utica-Rome and Buffalo, as well as at Rochester Institute of Technology, Clarkson University, and others.

Graduates with a minimum of 2.5 can transfer with full junior status into a B.S. Technology program at a number of institutions. Some graduates prefer a pure engineering degree and transfer to accredited B.S. Engineering programs. Usual requirements are a minimum GPA of 3.2 and appropriate additional courses in math (MAT 181, MAT 182, MAT 281), physics (PHY 181, PHY 182, PHY 281), chemistry, and statics and dynamics.

Engineering students use excellent state-of-the-art computer facilities which include personal computers and three VAX computers interconnected by a local area network, Ethernet. The faculty, along with large, well equipped labs and a building highlighted by a 30 foot high open atrium create a learning atmosphere that is first class.

The program has grown in its 46 years to embrace the areas of microprocessors, robotics, and fiber optics. In its new facilities are housed specialized equipment including logic analyzers, development systems, robots, spectrum analyzers, digital signal processors, programmable component analyzers, power system simulators, and numerous CAD (computer aided design) workstations. The program and equipment remain current through the efforts of an experienced and dedicated faculty.

The program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET).

## PREPARATORY COURSES FOR ELECTRICAL ENGINEERING TECHNOLOGY

The following are suggested sequences of courses for students not prepared for entry into the regular Electrical Engineering Technology program. This sequence is for students who have not had the necessary high school math and physics. Each entering student is tested in the College Learning Center prior to scheduling. The actual student schedule is personalized by the department for each entering student.

First Semester			Hours per Week		Credits per Semester
			Class	Lab	
EET 100	Introduction to Electrical Engineering Technology	1	0		1/2
EET 110	Introduction to Electricity	3	0		3
EET 111	Electrical Construction Lab I .....	1	3		2
MAT 139	Algebra .....	4	0		4
PHY 090	Preparatory Physics .....	3	2		4
			12	5	13 1/2

Second Semester					
EET 112	Electrical Construction Lab II .....	0	3		1
EET 130	Engineering Drawing ..	0	3		1
ENG 110	Written Expression .....	3	0		3
MAT 140	Trigonometry .....	4	0		4
PHY 161	Physics I .....	3	3		4
			10	9	13

OR

First Semester					
EET 100	Introduction to Electrical Engineering Technology	1	0		1/2
EET 110	Introduction to Electricity	3	0		3
EET 111	Electrical Construction Lab I .....	1	3		2
ENG 110	Written Expression I ....	3	0		3
MAT 099	Elementary Algebra .....	5	0		5
			13	3	13 1/2

Second Semester					
EET 112	Electrical Construction Lab II .....	0	3		1
EET 130	Engineering Drawing ..	0	3		1
ENG 150	Technical Writing .....	3	0		3
MAT 139	Algebra .....	4	0		4
PHY 090	Preparatory Physics .....	3	2		4
			10	8	13

## CURRICULUM ADVISORY COUNCIL ELECTRICAL ENGINEERING TECHNOLOGY

MICHAEL COPPOLA, Meson Design and Development  
ROBERT HOLMES, Universal Instruments  
ELDRED PAUFVE, Universal Instruments  
CHARLES RANDALL, Macintosh Labs  
ROBERT ROSE, IBM Corp. (Retired)  
JOSEPH SVOBODA, BOCES  
CHARLES TAYLOR, Binghamton University  
RUSSELL WILLIAMS, NYSEC



# ELECTRICAL ENGINEERING TECHNOLOGY

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

## COMMON FIRST YEAR

		Hours per Week		Credits per Semester
Fall Semester		Class	Lab	
CST 141	Fortran Programming with Graphic Applications ....	2	2	3
EET 111	Electrical Construction Laboratory I .....	1	3	2
EET 121	Electrical Circuits .....	4	3	5
EET 100	Introduction to Electrical Engineering Technology	1	0	1/2
ENG 110	Written Expression I ....	3	0	3
*MAT 161	Pre-Calculus .....	4	0	4
		15	8	17 1/2
Spring Semester				
EET 112	Electrical Construction Laboratory II .....	0	3	1
EET 130	Engineering Drawing ..	0	3	1
EET 150W	Electronic Devices .....	4	3	5
EET 162	Computer Aided Network Analysis .....	3	0	3
ENG 150	Technical Writing .....	3	0	3
*MAT 162	Applied Calculus or .....	4	0	4
*MAT 181	Calculus I with Analytic Geometry .....			
		14	9	17

## SECOND YEAR EMPHASIS

### ELECTRONIC COMMUNICATIONS

			Hours per Week		Credits per Semester
Fall Semester			Class	Lab	
EET 201	Senior Seminar .....	1	0		0
EET 247W	Energy Conversions .....	3	0		3
EET 247L	Energy Lab Elective .....	0	3		1
EET 251	Electronic Circuitry .....	3	3		4
EET 267	Digital Electronics and Microprocessors I .....	3	2		4
PHY 161	Physics I .....	3	3		4
SOS	Social Science Elective	3	0		3
			16	11	19
Spring Semester					
EET 202	Senior Seminar .....	1	0		0
EET 230	Electronic Design and Fabrication .....	0	3		1
EET 252	Electronic Systems .....	3	3		4
EET 270	Control Systems .....	3	3		4
EET 271	Communication Techniques .....	0	3		1
PHY 162	Physics II .....	3	3		4
— —	Social Science Elective	3	0		3
			13	15	17

## SECOND YEAR EMPHASIS ROBOTICS

		Hours per Week		Credits per Semester
Fall Semester		Class	Lab	
EET 201	Senior Seminar .....	1	0	0
EET 247W	Energy Conversions .....	3	0	3
EET 247L	Energy Lab Elective .....	0	3	1
EET 251	Electronic Circuitry .....	3	3	4
EET 267	Digital Electronics and Microprocessors I .....	3	2	4
PHY 161	Physics I .....	3	3	4
SOS	Social Science Elective	3	0	3
		16	11	19
<b>Spring Semester</b>				
EET 202	Senior Seminar .....	1	0	0
EET 230	Electronic Design and Fabrication .....	0	3	1
EET 252	Electronic Systems .....	3	3	4
EET 274	Robotic Applications ....	3	3	4
EET 275	Machine Vision Lab .....	0	3	1
PHY 162	Physics II .....	3	3	4
† —	Social Science Elective	3	0	3
		13	15	17

## SECOND YEAR EMPHASIS

### MICROCOMPUTERS

		Hours per Week		Credits per Semester
Fall Semester		Class	Lab	
EET 201	Senior Seminar .....	1	0	0
EET 247W	Energy Conversions .....	3	0	3
EET 247L	Energy Lab Elective .....	0	3	1
EET 251	Electronic Circuitry .....	3	3	4
EET 267	Digital Electronics and Microprocessors I .....	3	2	4
PHY 161	Physics I .....	3	3	4
SOS	Social Science Elective	3	0	3
		16	11	19
Spring Semester				
EET 202	Senior Seminar .....	1	0	0
EET 230	Electronic Design and Fabrication .....	0	3	1
EET 252	Electronic Systems .....	3	3	4
EET 272	Microcontroller Fundamentals .....	3	3	4
EET 273	Computer Design Lab ..	0	3	1
PHY 162	Physics II .....	3	3	4
† —	Social Science Elective	3	0	3
		13	15	17
Fall Semester Energy Lab Electives:				
EET 247-L01	Power Systems Lab .....	0	3	1
EET 247-L02	Programmable Controllers Lab .....	0	3	1
EET 247-L03	Energy Conversions Lab .....	0	3	1

## GRADUATION REQUIREMENTS: 70-1/2 CREDITS

\*Students should consult with the department chairman or his designee to determine the appropriate mathematics courses.

†One must be from SOS 111 or 120 and one must be chosen from any course with the following designators: ANT, ECO, GEO, HIS, POL, POS, PSY or SOC.

W - Writing Emphasis Course: Two Required.



# ENGINEERING SCIENCE

DEPARTMENT CHAIRPERSON, Jack D. Foster  
ACADEMIC ADVISOR, Joseph Biegen  
Applied Technology Building, Room 101  
Telephone 778-5114

The Engineering Science curriculum is designed primarily to prepare graduates to continue their studies in the various engineering disciplines at four-year colleges and universities. The strong emphasis on mathematics and physics also allows graduates to transfer to these majors at four-year institutions, with junior-year standing. In addition, there are immediate employment possibilities for qualified graduates who wish to terminate or postpone further educational goals until a more opportune time.

Broome Community College is a member of the New York State Two-Year Engineering Science Association. The purpose of this organization is to facilitate the transfer to four-year colleges, with junior-year standing, of two-year college graduates from engineering science programs. Binghamton University, SUNY at Buffalo and SUNY at Stony Brook, Rensselaer Polytechnic Institute (RPI), Clarkson, Rochester Institute of Technology (RIT), Cornell, Syracuse and Union are among the Engineering Schools who have agreed to give top priority to applicants with an A.S. degree in Engineering Science and who have been recommended by their department. Some students find it desirable to transfer out of state upon graduation. They, too, in most cases will transfer as full juniors and graduate with a Bachelor of Science in two more years. Broome Community College has an articulation agreement with Wilkes College in Pennsylvania and students have successfully transferred to places like Virginia Polytechnic Institute, Northwestern, Penn State, and the University of New Mexico. Feedback from these and other institutions to which Broome Community College students transfer indicates a high regard for the graduates and the quality of the Engineering Science program at BCC.

For students who wish to complete their education locally, Broome Community College and Binghamton University have a cooperative admissions plan for entering freshmen. Students accepted in this program are guaranteed transfer to Binghamton University as long as they maintain a grade point average of 3.00 at Broome.

Those graduates who prefer to seek immediate employment will find job opportunities as engineering technicians or as assistants to engineers involved in research and development. In addition, employment opportunities also exist which involve the application of mathematics and computer programming.

Students entering Broome Community College who wish to continue studying for their Bachelor's degrees in engineering, applied mathematics, or physics will find the Engineering Science program the most appropriate course of study. As a reasonable guideline for successful achievement in those rigorous programs, a student's course work in high school should be above the 80% level in all areas. (See page 9 for specific requirements.)

## COMPUTER RECOMMENDATION

Students in the A.S. degree Engineering Science Program will need to use the computer to solve technical assignments and prepare reports for submission. BCC faculty give assignments which can only be done on the computer. Engineering science students are strongly urged to purchase their own personal computer upon entering the program. This will ensure that students will have home computer access as well as College lab access when needed so that assignments can be completed in a timely fashion. A PC with a 486 processor, a 3.5" disk drive and a 200 megabyte hard drive are recommended.

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

		Hours per Week		Credits per Semester
		Class	Lab	
<b>FIRST YEAR</b>				
<b>Fall Semester</b>				
PED	Physical Education			
	Elective .....	0	2	1
CHM 145	Chemistry .....	3	3	4
MAT 181	Calculus I with			
	Analytic Geometry .....	4	0	4
EGR 150	Engineering Graphics ..	1	3	2
PHY 181	Engineering Physics I ..	3	2	4
ENG 110	Written Expression .....	3	0	3
EGR 100	Orientation .....	3	0	0
		17	10	18
<b>Spring Semester</b>				
CHM 146	Chemistry .....	3	3	4
EGR 151	Applications in			
	Engineering .....	2	2	3
MAT 182	Calculus II with			
	Analytic Geometry .....	4	0	4
PHY 182	Engineering Physics II ..	3	2	4
‡ —	Social Science Elective	3	0	3
EGR 100	Orientation .....	3	0	0
		18	7	18
<b>SECOND YEAR</b>				
<b>Fall Semester</b>				
EGR 281	Mechanics: Statics .....	3	0	3
EGR 285	Electrical and Electronic			
	Circuits .....	3	0	3
EGR 287	Engineering Science			
	Laboratory I .....	0	3	1
MAT 281	Calculus III with			
	Analytic Geometry .....	4	0	4
PHY 281W	Engineering Physics III	4	0	4
‡ —	Social Science Elective	3	0	3
EGR 200	Orientation .....	2	0	0
		19	3	18
<b>Spring Semester</b>				
*EGR 282	Mechanics: Dynamics ..	3	0	3
EGR 289	Introduction to			
	Microprocessors .....	2	0	2
EGR 288	Engineering Science			
	Laboratory II .....	0	3	1
MAT 282	Differential Equations			
	with Linear Algebra .....	4	0	4
** —	Technical Elective .....	3	0	3
PED	Physical Education			
	Elective .....	0	2	1
ENG 220	Communication About			
	Values .....	3	0	3
EGR 200	Orientation .....	2	0	0
		17	5	17

\*Organic Chemistry (CHM 245 and 246) may be substituted by students who are declared Chemical Engineering majors.

\*\*Students who plan to major in Mechanical or Civil Engineering should select EGR 283 Strength of Materials. Students majoring in all other engineering fields should elect EGR 284 Materials Science.

W - Writing Emphasis Course: Two Required.

‡One must be a writing emphasis course.

**GRADUATION REQUIREMENT: 71 CREDITS**



# MECHANICAL ENGINEERING TECHNOLOGY

DEPARTMENT CHAIRPERSON, William G. Kelly  
Mechanical Building, Room 117  
Telephone 778-5023

The Mechanical Engineering Technology program at Broome Community College is specifically designed to prepare students in the applied aspects of engineering. Mechanical Engineering Technology is a vital part of the engineering field. It requires the application of scientific and engineering knowledge and methods combined with practical technical skills in support of engineering activities. The Mechanical Engineering Technology program emphasizes the application of engineering principles to real world industrial problems utilizing current up-to-date equipment and techniques.

Mechanical Engineering Technology is the broadest of all engineering technology disciplines. The continuing thrust for faster and more economical manufacturing methods, more realistic systems and the need for new, clean and consistent sources of energy has generated a continuing demand for mechanical engineering technicians with a high degree of technical competence.

With a wide diversity of Mechanical Engineering Technology, our graduates are able to pursue careers in many segments of industry. Mechanical Engineering Technology graduates have been employed in areas such as process development, product design, CAD (computer aided design), quality control, metallurgy, reliability analysis, heat-power, technical sales, purchasing and product development. Job opportunities exist both locally and nationally, with starting salaries averaging over \$22,000 per year.

Many of our graduates have pursued Baccalaureate parallel programs which have been designed to facilitate transfer from a two-year to a four-year college. Graduates with a minimum G.P.A. of 2.5 can receive a full two-year transfer of credit towards the requirements for the Bachelor of Technology degree at a number of institutions.

The Mechanical Engineering Technology program at Broome Community College is divided into four major areas:

Engineering Materials  
Fluid Mechanics and Thermodynamics  
Mechanical Drawing and Design — CAD  
Manufacturing Processes and Quality Control

The Mechanical Engineering Technology program is designed to prepare our graduates for their profession by providing a solid background in each of these areas of mechanical engineering technology, but also develops a firm base for students to continue their studies at various four-year colleges and universities.

The Mechanical Engineering Technology program at Broome Community College is accredited by the Technology Accreditation Commission of the Accreditation Board of Engineering and Technology (TAC/ABET).

## CURRICULUM ADVISORY COUNCIL

### MECHANICAL ENGINEERING TECHNOLOGY

RONALD AMBERGER, Engineering Technology Department,  
Rochester Institute of Technology,  
School of Engineering Technology  
LOUIS EVANGELISTI, Standards Supervisor (Retired)  
Singer-Link  
RONALD LASKY, Director of Advanced Technology  
Universal Instruments  
CARL A. LUNDGREN, Engineering Technology Department,  
Rochester Institute of Technology,  
School of Engineering Technology  
ROBERT MACCHIARELLA, Product Evaluation Engineer  
The Raymond Corporation  
PETER MAJESTIC, Senior Engineer, Opto-Electronics  
Mat'l's. & Process Research, Corning, Inc.  
RAYMOND PERINE, NYSEG (Retired)  
RICHARD VLASAK, Advisory Reliability Engr. (Retired)  
IBM Endicott

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

			Hours per Week		Credits per Semester
			Class	Lab	
<b>FIRST YEAR</b>					
<b>Fall Semester</b>					
MET 110	Introduction to Technology .....		1	0	1/2
*MAT 161	Pre-Calculus .....		4	0	4
MET 113	Engineering Drawing I .....		1	3	2
MET 121	Manufacturing Processes I .....		1	3	2
‡PHY 161	Physics I .....		3	3	4
ENG 110	Written Expression I ....		3	0	3
‡Social Science Elective .....			3	0	3
			16	9	18 1/2
<b>Spring Semester</b>					
CST 122	Scientific Computer Programming - FORTRAN .....		2	2	3
MET 116	Engineering Drawing II w/CAD .....		1	3	2
MET 122	Manufacturing Processes II .....		2	2	3
PHY 162	Physics II .....		3	3	4
MET 132	Applied Mechanics .....		4	0	4
ENG 150	Technical Writing .....		3	0	3
			15	10	19
<b>SECOND YEAR</b>					
<b>Fall Semester</b>					
EET 183	Electricity .....		2	3	3
*MAT 162	Applied Calculus .....		4	0	4
MET 235	Strength of Materials ...		2	3	3
MET 243W	Fluid Mechanics .....		2	3	3
MET 263	Engineering Statistics and Quality Control .....		1	2	2
MET 211	Basic Mechanical Cad ..		1	2	2
			12	13	17
<b>Spring Semester</b>					
EET 186	Electronics .....		2	3	3
MET 238	Mechanical Design .....		3	3	4
MET 252	Engineering Materials and Industrial Processes .....		3	3	4
MET 244	Thermodynamics .....		2	3	3
‡Social Science Elective .....			3	0	3
			13	12	17

\*or MAT 181-182 Calculus I and II with Analytic Geometry. Prior approval by department Chairperson required.

‡Students entering the program without physics may elect to take PHY 100 Preparatory Physics I during the first semester in place of PHY 161 Physics I. PHY 161 Physics I may be taken during the spring semester and PHY 162 and MET 132 Applied Mechanics during the summer session. This will enable the student to graduate on schedule. PHY 100 Preparatory Physics is not applicable towards the degree.

W - Writing Emphasis Course: Two Required.

‡One must be chosen from ECO 110/111, HIS 130/131, POS 201/204, SOC 111, SOS 111/120.

### GRADUATION REQUIREMENTS: 71-1/2 CREDITS



# INDUSTRIAL TECHNOLOGY (Part-Time Programs)

## Associate in Applied Science

### CHEMICAL EMPHASIS

**SUGGESTED SEQUENCE:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed:

Introductory Courses		Credits
MAT 139	Algebra	4
CHM 145	Chemistry	4
ENG 110	Written Expression	3
Additional Courses for Certificate		
CHM 146	Chemistry	4
CHM 291	Organic Chemistry I	3
CHM 292	Organic Chemistry II	3
PHY 161	Physics I	4
MAT 140	Trigonometry	4
CST 122	Computer Programming-FORTRAN	3
		32
Remaining Courses for Degree		
PHY 162	Physics II	4
CHM 293	Analytical-Instrumental Chemistry I	3
CHM 294	Analytical-Instrumental Chemistry II	3
ENG 150	Technical Writing	3
†Social Science Electives		6
Approved Technical Science Electives (see list below)		13
AAS Industrial Technology (Chemical Emphasis)		
Minimum Credits		64

The following may be taken as approved technical/science courses to meet degree requirements: MAT 162, MAT 181, MAT 182, MAT 264, EET 111, EET 112, EET 125, EET 126, MET 263, CST 113, CST 126, CST 150, CST 170, CST 202, CST 205, CST 211, CST 220, CST 222, CST 225, BIO 111, BIO 112.

†One must be chosen from ECO 110/111, HIS 130/131, POS 201/204, SOC 111, SOS 111/120.

W - Writing Emphasis Course: Two Required.

### CIVIL EMPHASIS

**SUGGESTED SEQUENCE:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed:

Introductory Courses		Credits
MAT 139	Algebra	4
MAT 140	Trigonometry	4
ENG 110	Written Expression I	3
PHY 161	Physics I	4
Additional Courses for Certificate		
MET 132	Applied Mechanics or CIV 124	3-4
MET 141	Mechanical Drawing I	2
CIV 159	Architectural Drafting	3
CIV 205	Intro to Comp. Graphics with Arch. Applications	3
CST 122	Computer Programming-FORTRAN	3
ENG 150	Technical Writing	3
		32-33
Remaining Courses for Degree		
PHY 162	Physics II	4
MET 235	Strength of Materials	3
†Social Science Electives		6
Approved Technical Electives* (see list below)		18-19
AAS Industrial Technology (Civil Emphasis)		
Minimum Credits		64

\* The following may be taken as approved technical elective courses to meet the degree requirements CIV 111, MAT 162 or MAT 181, CIV 161, CIV 216, CIV 217W, CIV 224, CIV 226, CIV 228 or CIV 231, CIV 238, CIV 240, CIV 268, MET 211, MET 213.

Suggested Social Science Courses: ECO 110, ECO 111, SOC 110/111, PSY 110, ECO 104, PSY 100, SOS 111, SOS 120, SOS 130.

\* Students should note that specialty courses like Surveying, Materials Testing and Steel and Reinforced Concrete Design are generally only offered during the day. Students should carefully review the effect of this scheduling on their academic plans.

†One must be chosen from ECO 110/111, HIS 130/131, POS 201/204, SOC 110/111, SOS 111/120.

W - Writing Emphasis Course: Two Required.

### ELECTRICAL EMPHASIS

**SUGGESTED SEQUENCE:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed:

Introductory Courses		Credits
MAT 139	Algebra	4
MAT 140	Trigonometry	4
EET 125	Circuits I	3
ENG 110	Written Expression I	3
Additional Courses for Certificate		
EET 126	Circuits II	3
EET 255	Electronics I	4
MET 141	Mechanical Drawing I	2
CST 122	Computer Programming-FORTRAN (Technical)	3
†Social Science Elective		3
Approved Technical Electives		3
		32
Remaining Courses for Degree		
EET 235	Electrical and Electronics Drawing	2
EET 245	Energy Conversions and Control Systems	4
EET 256	Electronics II	4
EET 257	Electronics III	4
EET 267	Digital Electronic & Microprocessors I	4
PHY 161, 162	Physics I, II	8
ENG 150	Technical Writing	3
†Social Science Elective		3
AAS Industrial Technology (Electrical Emphasis)		
Minimum Credits		64

Approved Technical Electives: EET 111, EET 112, EET 268, MAT 124, MAT 181, MAT 182, MAT 264, MET 243, MET 132, MET 244, MET 246, MET 253, MET 263, MET 280, MET 285, MET 286, CIV 228, CIV 268, CIV 155, CHM 145, CHM 146, CST 115, CST 126, CST 130, CST 150, CST 200, CST 201, CST 202, CST 222.

†Social Science Elective: One must be from SOS 111 or 120 and one must be chosen from any course with the following designators: ANT, ECO, GEO, HIS, POL, POS, PSY or SOC.

Courses in the fast changing engineering technologies such as Electronics Computers, and Machine & Controls, cannot be used for degree requirements if they were taken more than 5 years prior to graduation date. One exception to this rule would be the student who has been in the degree program for a number of years and has taken at least one required course every fall and spring semester.

W - Writing Emphasis Course: Two Required.



## MANUFACTURING TECHNOLOGY EMPHASIS

SUGGESTED SEQUENCE: Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

Introductory Courses		Credits
*MAT 139	Algebra	4
*MAT 140	Trigonometry	4
MET 121	Manufacturing Processes I	2
MET 141	Mechanical Drawing I	2
ENG 110	Written Expression	3

Additional Courses for Certificate		Credits
MET 122	Manufacturing Processes II	3
PHY 161	Physics I	4
MET 142	Mechanical Drawing II with CAD	2
MET 263	Engineering Statistics and Quality Control	2
MET 112	Metrology	3
MET 236	Statics and Strength of Materials	4
		33

Remaining Courses for Degree		Credits
EET 125	Circuits I	3
MET 211	Computer Aided Drafting	2
MET 220	Programming CNC Machine Tools	3
MET 286	Production Control	2
MET 223	Computer Integrated Machining	3
EET 126	Circuits II	3
MET 253	Engineering Materials	3
SQC 111	Acceptance Sampling	3
*****	Social Science	6
ENG 150	Technical Writing	3
		31

AAS Industrial Technology (Manufacturing Technology)	
Minimum Credits	64

\* Must have a minimum of 4 hours of Mathematics as a requirement for the degree if background makes it unnecessary to take MAT 139 Algebra and MAT 140 Trigonometry.

†One must be taken from ECO 110/111, HIS 130/131, POS 201/204, SOC 111, SOS 111/120.

W - Writing Emphasis Course: Two Required.

## MECHANICAL EMPHASIS

SUGGESTED SEQUENCE: Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

Introductory Courses		Credits
*MAT 139	Algebra	4
*MAT 140	Trigonometry	4
MET 121	Manufacturing Processes I	2
MET 141	Mechanical Drawing I	2
ENG 110	Written Expression	3

Additional Courses for Certificate		Credits
MET 122	Manufacturing Processes II	3
PHY 161	Physics I	4
MET 132	Applied Mechanics	4
MET 142	Mechanical Drawing II with CAD	2
MET 112	Metrology	3
MET 263	Engineering Statistics and Quality Control	2
		33

Remaining Courses for Degree		Credits
CST 122	FORTAN	3
PHY 162	Physics II	4
MET 253	Engineering Materials and Industrial Processes	3
ENG 150	Technical Writing	3
MET 211	Computer Aided Drafting	2
*****	Social Science	6
MET 235	Strength of Materials	3
MET 220	Programming CNC Machine Tools	3
		27

4 Crds. Technical Electives	
AAS Industrial Technology (Mechanical Emphasis)	
Minimum Credits	64

Approved Technical Electives:  
MET 118, 125, 221, 222, 223, 224, 238, 244, 246, 248, 280, 285, 286, 287, EET 111, 112, 125, 126, 255, 256, 257, CHM 145, 146, MAT 181, 182.

\* Must have a minimum of 4 hours of Mathematics as a requirement for the degree if background makes it unnecessary to take MAT 139 Algebra and MAT 140 Trigonometry.

†One must be taken from ECO 110/111, HIS 130/131, POS 201/204, SOC 111, SOS 111/120.

W - Writing Emphasis Course: Two Required.

## PRODUCTION MANAGEMENT EMPHASIS

SUGGESTED SEQUENCE: Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

Introductory Courses		Credits
*MAT 139	Algebra	4
*MAT 140	Trigonometry	4
MET 121	Manufacturing Processes I	2
MET 141	Mechanical Drawing I	2
ENG 110	Written Expression	3

Additional Courses for Certificate		Credits
MET 122	Manufacturing Processes II	3
PHY 161	Physics I	4
MET 142	Mechanical Drawing II with CAD	2
MET 285	Time, Motion & Wage Study	2
BUS 255	Industrial Labor Relations	2
MET 263	Engineering Statistics and Quality Control	2
MET 286	Production Control	2
		32

Remaining Courses for Degree		Credits
CST 122	FORTAN	3
ENG 150	Technical Writing	3
MET 280	Management Decisions	2
MET 287	Plant Layout and Materials Handling	2
MET 211	Computer Aided Drafting	2
*****	Social Science	6
MET 112	Metrology	3
BUS 252	Supervision of Personnel	2
MET 220	Programming CNC Machine Tools	3
BUS 246	Principles of Management	3
		29

3 Crds. Technical Electives  
AAS Industrial Technology (Production Management)  
Minimum Credits 64

Approved Technical Electives:  
MET 118, 125, 132, 221, 222, 223, 224, 235, 238, 243, 244, 246, 248, 253, EET 111, 112, 125, 126, 255, 256, 257, CHM 145, 146, MAT 181, 182.

\* Must have a minimum of 4 hours of Mathematics as a requirement for the degree if background makes it unnecessary to take MAT 139 Algebra and MAT 140 Trigonometry.

†One must be taken from ECO 110/111, HIS 130/131, POS 201/204, SOC 111, SOS 111/120.

W - Writing Emphasis Course: Two Required.



## QUALITY ASSURANCE EMPHASIS

**SUGGESTED SEQUENCE:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

Introductory Courses		Credits
MAT 139	Algebra	4
MAT 140	Trigonometry	4
MAT 125	Statistics I w/Computers	3
MET 113	Engineering Drawing I	2
ENG 110	Written Expression I	3

Additional Courses for Certificate		Credits
SQC 100,200	Orientation	0
CST 105	Understanding Computers	3
MET 121	Manufacturing Processes I	2
SQC 111	Acceptance Sampling	3
SQC 112	Metrology	3
SQC 113	Statistical Process Control	3
SQC 220	Senior Practicum	3
		33

Remaining Courses for Degree		Credits
MAT 224	Statistics II	3
PHY 161	Physics I	4
CHM 120	Fundamentals of Chemistry	4
MET 122	Manufacturing Processes II	3
ENG 150	Technical Writing	3
†Social Science Electives		6
SQC 244	Reliability and Life Testing	3
MAT 245	Intro to Design of Experiments	3
EET 183	Applied Electricity	3
		32

AAS Industrial Technology		
Quality Assurance Emphasis		
Minimum Credits		65

†One must be taken from ECO 110/111, HIS 130/131, POS 201/204, SOC 111, SOS 111/120.

W - Writing Emphasis Course: Two Required.



### CURRICULUM ADVISORY COUNCIL QUALITY ASSURANCE

CARY FRYE - Crowley Foods  
 JACK E. HOSTETLER - IBM, Retired  
 DONALD W. HOGAN - IBM, Retired  
 RALPH SIMON - Anitec Imaging Corporation  
 ARTHUR E. JAMISON - IBM  
 WILLIAM VICK - Universal Instruments Corp.  
 KEN HULL - United Health Services



# BUSINESS

DEPARTMENT CHAIRPERSON, Richard P. Behr  
Business Building, Room 107  
Telephone 778-5008

ACADEMIC ADVISOR, Wayne Lockwood  
Business Building, Room 103  
Telephone 778-5008

CURRICULUM COORDINATOR, John Bunnell  
Business Building, Room 218  
Telephone 778-5143

CURRICULUM COORDINATOR, Ray Van Ness  
Business Building, Room 003  
Telephone 778-5355

CURRICULUM COORDINATOR, Reynald Wojdat  
Business Building, Room 106  
Telephone 778-5171

The Department of Business offers programs in five areas of study — Accounting, Business Administration, Hotel/Restaurant Management, Marketing Management and Travel and Tourism. In addition, the accounting curriculum offers an emphasis in banking, the marketing/management curriculum offers emphases in marketing, management, and entrepreneurship, and the Business Administration Program offers emphases in International Business and Healthcare Services Administration.

All Business Programs are planned with the assistance of advisory committees made up of individuals currently working in the various areas of business involved. To assist the incoming student in selecting the proper option, all have a common first semester. Thus, the student can delay selection of a program until registration for the second semester. During the first semester of study, all full-time students will be assigned an advisor to assist them in selecting a program and appropriate courses.

Programs in Accounting, Entrepreneurship, Hotel/Restaurant Management, Management, Marketing, Banking and Travel/Tourism are career oriented and designed to prepare the graduate for immediate employment. Opportunities exist locally for careers in these fields. The student should note that, although these programs are not designed specifically for transfer, they do provide good transfer opportunities to many four-year colleges and universities. Many four-year schools will accept graduates of these programs at full junior status.

The Business Administration, Healthcare Services Administration and International Business Programs are designed to facilitate transfer to four-year colleges and universities. If the proper elective sequences are followed, these options will allow the student junior status at almost all four-year schools. It is of the utmost importance that students confer with their advisor before choosing electives.

In addition to the programs described above, the Department of Business offers uniquely constructed programs in Accounting and Marketing/Management for part time evening and College-on-the-Weekend students. The College-on-the-Weekend program offers students the opportunity to take classes which meet only every third weekend for a total of only six weekends per semester.

Cooperative work experience is available to many business students. Hotel/Restaurant Management and Travel/Tourism Management students are offered internships for credit as part of their curriculum. These opportunities offer the student first hand practical experience and college credit.



## CURRICULUM ADVISORY COUNCIL GENERAL BUSINESS

RON BARBER — Matco Electric Co.  
FRANK BERRISH — IBM Credit Union  
ROBIN DEBRITA — Simmonds Precision  
STEVE GARDNER — GHS Credit Union  
RUTH GDOVIN — Personnel, Broome County  
JOHN GIANGRIECO — Universal Instruments, Inc.  
VERNON GOAD — CVS Drug Stores, Inc.  
DOREEN GLOWIENKA — IBM Corporation  
CLYDE GRUVER — Century 21 Clyde Gruver Realty  
ED HOGG — Chase Lincoln First Bank  
JANET KANICK — Dover Electronics, Inc.  
TOM KETRICK — Ketrick Insurance, Inc.  
BOB MOPPERT — MAPES Moving and Storage, Inc.  
ROB SALAMIDA — Rob Salamida Co.  
MARK STANLEY — C.P.A.  
DENNIS WALKER — C.P.A.  
BOB WHITE — Jo-Kel Restaurant, Inc.

## CURRICULUM ADVISORY COUNCIL HOTEL/RESTAURANT MANAGEMENT

LISA BERNARDO — Vice President & General Manager  
Best Western Kings Inn  
BILL KIESWER — Owner, Kiwis  
STEPHEN J. LUPO — Partner, Lupo's S&S Char Pit  
DAVID MAINES — Owner, Maines Paper & Food Services  
JAMES MCCOY — Owner, Hotel DeVille  
PATRICK T. REARDON — Owner, P.T. Reardon's  
ROB SALAMIDA — Owner, Rob Salamida Co.  
MABEL STOLTZ — Owner, McDonald's (STOMAC)

## CURRICULUM ADVISORY COUNCIL TRAVEL AND TOURISM

DEBBIE BIANCO — Liberty Travel  
TAMI DENARDO — Broome County Convention & Visitors Bureau  
SCHELLEY A. HOYT-KOLOSNA  
KAREN KERR — Apple Travel  
KIM MITCHELL — All Aboard Travel  
LORI PICCIRILLI — Lormar Travel  
DAN SMITH — Hertz  
MARIAN SMITH — Carlson Travel  
JAMES VAN WOERT — USAir District Sales Office



## ACCOUNTING

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

		Hours per Week		Credits per Semester
FIRST YEAR		Class	Lab	
<b>Fall Semester</b>				
BUS 100	Accounting I.....	4	0	4
BUS 107	Freshman Experience ..	1	0	1
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
ENG 110	Written Expression I ....	3	0	3
*BUS 112	Quantitative Business Methods.....	3	0	3
		17	0	17
<b>Spring Semester</b>				
BUS 101	Accounting II .....	4	0	4
BUS 120W	Business Law II .....	3	0	3
CST 107	Business Appl. Micro Computer .....	3	0	3
BUS	Elective (Pick one elective from group A below) ....	3-4	0-2	3-4
**MAT 117	Elementary Finite Math/Algebra .....	3-4	0	3-4
		16-18	0-2	16-18
<b>SECOND YEAR</b>				
<b>Fall Semester</b>				
#BUS 200	Intermediate Accounting I	4	0	4
#BUS 205	Cost Accounting I .....	4	0	4
---	Math/Science Elective ..	3-4	0-3	3-4
ECO 110W	Micro Economics .....	3	0	3
SPK 102	Effective Speaking .....	3	0	3
		17-18	0-3	17-18
<b>Spring Semester</b>				
#BUS 201	Intermediate Accounting II .....	4	0	4
#BUS 206	Cost Accounting II or Managerial Accounting	4	0	4
ENG 220	Communicating About Values .....	3	0	3
BUS	Elective (pick one elective from group B below) ....	3-4	0-2	3-4
---	Social Science Elective	3	0	3
		17-18	0-2	17-18

Total Credits: 67-71

\*Depending on Mathematics entrance testing scores and Math background, the student will take: MAT 090 and QBM or QBM or Introduction to Business.

\*\*Students planning to transfer are advised to take MAT 139 or higher.

Group A Electives: BUS 115, BUS 210, BUS 224, BUS 245, BUS 248, BUS 262, or a programming language (CST).

Group B Electives: BUS 206, BUS 210, BUS 224, BUS 245, BUS 248, BUS 262, BUS 270 BUS 295 or a programming language (CST).

#Take these courses in the semester (spring or fall) indicated. They are not offered in all semesters.

W - Writing Emphasis Course

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

## ACCOUNTING

### Banking/Finance Emphasis

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full-time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part-time study.

		Hours per Week		Credits per Semester
FIRST YEAR		Class	Lab	
Fall Semester				
BUS 100	Accounting I.....	4	0	4
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
ENG 110	Written Expression .....	3	0	3
BUS 107	Freshman Experience ..	1	0	1
*BUS 112	Quantitative Business Methods.....	3	0	3
Total		17	0	17
Spring Semester				
---	Math or Science Elective .....	3-4	0-3	3-4
BUS 101	Accounting II .....	4	0	4
BUS 120W	Business Law II .....	3	0	3
#BNK 168	Principles of Banking ...	3	0	3
CST 107	Bus. Appl on Microcomputer .....	3	0	3
Total		16-17	0-3	16-17
SECOND YEAR				
Fall Semester				
BNK	Banking Elective .....	3	0	3
#BUS 131	Personal Finance .....	3	0	3
BUS 152	Selling Fundamentals ..	3	0	3
ECO 110W	Micro Economics .....	3	0	3
---	Math/Science Elective ..	3-4	0-3	3-4
SPK 102	Effective Speaking .....	3	0	3
Total		18-19	0-3	18-19
Spring Semester				
ENG 220	Communicating About Values .....	3	0	3
#BUS 135	Investments .....	3	0	3
BNK	Banking Elective .....	3	0	3
ECO 111	Macro Economics .....	3	0	3
BUS 224	Bus. Finance .....	3	0	3
Total		15	0	15

Total Credits: 67-68

\*Depending on Mathematics entrance testing scores and math background, student will take: MAT 090 and QBM or QBM or Introduction to Business.

#Take these courses in the semester (spring or fall) indicated. They are not offered in all semesters.

W - Writing Emphasis Course

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

NOTE: BNK courses meet evenings only.



# BUSINESS ADMINISTRATION

## TRANSFER PROGRAM

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR Fall Semester		Hours per Week		Credits per Semester
		Class	Lab	
BUS 100	Accounting I .....	4	0	4
BUS 107	Freshman Experience ..	1	0	1
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
ENG 110	Written Expression I ....	3	0	3
*BUS 112	Quantitative Business Methods .....	3	0	3
Total		17	0	17

Spring Semester					
BUS 101	Accounting II .....	4	0		4
BUS 120W	Business Law II .....	3	0		3
BUS 115	Business Statistics .....	3	0		3
§— —	Business, Computer Studies or Liberal Arts and Related Careers Elective .....	3	0-2		3
SPK 102	Effective Speaking .....	3	0		3
§— —	Select one of the following:				
CST 115	Introduction to PASCAL	2	2		3
CST 118	Introduction to COBOL	2	2		3
CST 107	Business Appl. Microcomputer .....	3	0		3
Total		18-19	0-4		19

## SECOND YEAR

Fall Semester					
ECO 110W	Micro Economics .....	3	0	3	
MAT 145	Finite Math or higher # MAT course (except MAT 161, 162) .	3	0	3	
— —	Lab Science Elective ....	3	3	4	
\$ — —	Liberal Arts and Related Careers Elective .....	3	0	3	
PED	Physical Education .....	2	0	1	
\$ — —	Liberal Arts and Related Careers or Business or Computer Studies Elective .....	3-4	0-3	3-4	
Total		17-18	3-6	17-18	

Spring Semester				
ECO 111	Macro Economics .....	3	0	3
MAT 146	Introduction to Calculus	3	0	3
— —	Lab Science Elective .	3	3	4
\$ — —	Liberal Arts and Related Careers Elective .....	3	0	3
ENG 220	Communicating About Values .....	3	0	3
Total		15-16	0-3	16-17

Total Credits: 69-71

\*Depending on Mathematics entrance testing scores and Math background, the student will take: MAT 090 and QBM or QBM or Introduction to Business.

\$To maximize transfer credit, students **must see their academic advisor** for counseling concerning the proper selection of business, Liberal Arts and Related Careers, and computer science electives. Generally, Liberal Arts and Related Careers electives are recommended for transfer.

# BUSINESS ADMINISTRATION

## International Business Emphasis

**TRANSFER PROGRAM** (This program will be offered pending State Education Department Approval.)

FIRST YEAR Fall Semester		Hours per Week		Credits per Semester
		Class	Lab	
BUS 100	Accounting I.....	4	0	4
BUS 107	Freshman Experience	1	0	1
BUS 118	Business Law I.....	3	0	3
*BUS 141	Marketing .....	3	0	3
ENG 110	Written Expression I..	3	0	3
*BUS 112	Quant. Bus. Methods or Intro to Business .....	3	0	3
		17	0	17

Spring Semester					
BUS	101	Accounting II .....	4	0	4
BUS	120W	Business Law II .....	3	0	3
BUS	115	Business Statistics .....	3	0	3
ANT	111	Cultural Anthropology .	3	0	3
		Foreign Language .....	4	0	4
CST	107	Bus. Applic. Micro-computer .....	3	0	3
			20	0	20

## SECOND YEAR

Fall Semester					
ECO 110W	Microeconomics .....	3	0	3	
MAT 145	Finite Math or higher # MAT course (except MAT 161 and MAT 162) .....	3	0	3	
—	Lab Science Elective ....	3	3	4	
—	Foreign Language .....	4	0	4	
PED	Physical Education .....	2	0	1	
SOS/BUS 116	Social & Cult. Dim. Int. Bus./Bus in a Global Envir. ....	3	0	3	
		18	3	18	

Spring Semester					
ECO	111	Macroeconomics .....	3	0	3
MAT	146	Intro to Calculus .....	3	0	3
—		Lab Science Elective ....	3	3	4
—		Foreign Language or ....	3-4	0	3-4
		an elective from below #			
ENG	220	Communicating About Values .....	3	0	3
			15-16	3	16-17

# HIS 115, HIS 190, GEO 120, ART 102, ART 104, OR HIS 141

Total Credits: 71-72

\*Depending on Mathematics entrance score and Math background, the student will take MAT 090 and QBM or QBM or Introduction to Business.



# BUSINESS ADMINISTRATION

## Healthcare Services Administration Emphasis

**TRANSFER PROGRAM\*** (This program will be offered pending State Education Department Approval.)

FIRST YEAR Fall Semester		Hours per Week		Credits per Semester
		Class	Lab	
BUS 100	Accounting I.....	4	0	4
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
#BUS 112	Quantitative Business Methods .....	3	0	3
BUS 107	Freshman Experience ..	1	0	1
ENG 110	Written Expression I ....	3	0	3
Total		17	0	17

Spring Semester				
BUS 101	Accounting II .....	4	0	4
BUS 120W	Business Law II .....	3	0	3
**MAT 117	Elem. Fin. Math OR ....	4	0	4
MAT 139	.....			
CST 107	Business Applications on the Microcomputer .	3	0	3
HCM 193	Intro to Health Care Systems .....	3	0	3
Total		17	0	17

SECOND YEAR Fall Semester				
ECO 110W	Microeconomics .....	3	0	3
BIO 131	Human Biology I .....	3	2	4
SPK 102	Effective Speaking .....	3	0	3
HCM 194	Healthcare Cost Containment Finance .....	3	0	3
BUS 115	Business Statistics .....	3	0	3
BUS 245	Management, A Behavioral Approach OR	3	0	3
BUS 248	Human Resource Management .....			
Total		18	2	19

Spring Semester				
Math, Science, Liberal Arts Elective ..		3	0	3
BIO 132	Human Biology II .....	3	2	4
ENG 220	Communicating About Values .....	3	0	3
HCM	Elective .....	3	0	3
ECO 111	Macroeconomics .....	3	0	3
PED	Physical Education .....	2	0	1
Total		17	2	17

Total Credits: 70

#Depending on Mathematics entrance testing scores and Math background, the student will take: MAT 090 and QBM or QBM or Introduction to Business.

\*This program is recommended for transfer to Healthcare Services Administration, Healthcare Management, and similar programs.

\*\*or higher number four credit math course.

# HOTEL/RESTAURANT MANAGEMENT

FIRST YEAR Fall Semester		Hours per Week		Credits per Semester
		Class	Lab	
BUS 100	Accounting I.....	4	0	4
BUS 107	Freshman Experience ..	1	0	1
*BUS 112	Quantitative Business Methods .....	3	0	3
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
ENG 110	Written Expression I ....	3	0	3
		17	0	17

Spring Semester				
**BHM 110	Sanitation and Safety ...	2	0	2
**BHM 125W	Hospitality Law .....	3	0	3
**BHM 150	Hospitality Operations Seminar .....	4	0	3
BUS 152	Selling Fundamentals ..	3	0	3
CST 107	Business Applications on the Microcomputer .....	3	0	3
	Social Science Elective	3	0	3
		18	0	17

SECOND YEAR Fall Semester				
\$ BHM 201	Hotel/Restaurant Internship I .....	3	0	3
**BHM 215	Culinary Arts Theory Development .....	1	6	3
**BHM 235	Hotel & Restaurant Cost Control .....	4	0	4
**BUS 248	Human Resource Management .....	3	0	3
MAT 113	Math Explorations (or higher #MAT course)	3	0	3
ECO 110W	Microeconomics .....	3	0	3
		17	6	19

Spring Semester				
**BUS 262	Small Business Management .....	3	0	3
**BUS 229	Advertising .....	4	0	4
\$BHM 297	Hotel/Restaurant Internship II .....	3	0	3
SPK 102	Effective Speaking .....	3	0	3
ENG 220	Communicating About Values .....	3	0	3
	Math/Science Elective .	3	0-2	3
		19	0-2	19

Total Credits: 72

\*Depending on Mathematics entrance testing scores and Math background; student will take: MAT 090 AND QBM OR QBM OR BUS 110 — Introduction to Business.

\*\* Take these courses in the semester (fall or spring indicated). They are not offered in all semesters.

\$ Internships maybe taken and/or completed during the summer.

W - Writing Emphasis Course

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.



# ENTREPRENEURSHIP

Degree: AAS Marketing/Management/Sales

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR		Hours		Credits per Semester
		per Week		
Fall Semester		Class	Lab	
BUS 100	Accounting I.....	4	0	4
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
*BUS 112	Quantitative Business Methods .....	3	0	3
BUS 107	Freshman Experience ..	1	0	1
ENG 110	Written Expression I....	3	0	3
		17	0	17

<b>Spring Semester</b>					
CST 107	Bus. Appl. Micro Computer .....	3	0		3
BUS 101	Accounting II .....	4	0		4
BUS 120W	Business Law II .....	3	0		3
—	Social Science Elective	3	0		3
MAT 117	Elem. Finite Math (or higher #MAT course) 3-4	3-4	0		3-4
			16-17	0	16-17

<b>SECOND YEAR</b>					
<b>Fall Semester</b>					
BUS 131	Personal Finance .....	3	0		3
#BUS 224	Business Finance .....	3	0		3
SPK 102	Effective Speaking .....	3	0		3
†PHS 111	Physical Science Today	3-4	3		3-4
ECO 110W	Micro Economics .....	3	0		3
			15-16	3	15-16

<b>Spring Semester</b>					
#BUS 266	Adv. + Pro. for SB .....	4	0		4
#BUS 263	Small Business Seminar	4	0		4
BUS 245	Management Behavioral	3	0		3
ENG 220	Communicating About Values .....	3	0		3
(Select one of the following)					
##BUS 297	Co-Op .....	3	0		3
or					
BUS	Business Elective .....	3-4	0		3-4
			17-18	0	17-18

Total Credits: 65-68

\*Depending on Mathematics entrance testing scores and Math background, the student will take: MAT 090 and QBM or QBM or Introduction to Business.

†Students who are planning to transfer are advised to take a four credit lab science elective.

## Recommended.

# Take these courses in the semester (spring or fall) indicated. They are not offered in all semesters.

W - Writing Emphasis Course

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

# MANAGEMENT

Degree: AAS Marketing/Management/Sales

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

		Hours per Week		Credits per Semester
FIRST YEAR		Class	Lab	
Fall Semester				
BUS 100	Accounting I.....	4	0	4
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
ENG 110	Written Expression I ....	3	0	3
*BUS 112	Quantitative Business Methods .....	3	0	3
BUS 107	Freshman Experience ..	1	0	1
		17	0	17

<b>Spring Semester</b>					
BUS 101	Accounting II .....	4	0		4
BUS 120W	Business Law II .....	3	0		3
BUS 152	Selling Fundamentals ..	3	0		3
—	Lab Science .....	3	3		4
MAT 139	Algebra or higher numbered math course .....	3-4	0		3-4
			16-17	3	17-18

<b>SECOND YEAR</b>					
<b>Fall Semester</b>					
BUS 115	Business Statistics .....	3	0		3
#BUS 224	Business Finance .....	3	0		3
BUS 245	Management: A Behavioral Approach .....	3	0		3
CST 107	Business Appl. Micro Computer .....	3	0		3
SPK 102	Effective Speaking .....	3	0		3
ECO 110W	Micro-Economics .....	3	0		3
			18	0	18

<b>Spring Semester</b>					
ENG 220	Communicating About Values .....	3	0		3
#BUS 270	Management Science ...	3	0		3
BUS 248	Human Resource Management .....	3	0		3
ECO 111	Macro-Economics .....	3	0		3
\$ — —	BUS/CST or Liberal and General Studies Elective .....	2-3	0-2		3
			14-15	0-2	15

Total Credits: 67-68

\*Depending on Mathematics entrance testing scores and Math background, the student will take: MAT 090 and QBM or QBM or Introduction to Business

# Take these courses in the semester (spring or fall) indicated. They are not offered in all semesters.

W - Writing Emphasis Course

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

\$ Students should not use BUS 110 Introduction to Business as their elective.



# MARKETING

Degree: AAS Marketing/Management/Sales

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR			Hours		Credits
			per Week		
Fall Semester			Class	Lab	per Semester
BUS 100	Accounting I .....	4	0	4	
BUS 118	Business Law I .....	3	0	3	
BUS 141	Marketing .....	3	0	3	
ENG 110	Written Expression I ...	3	0	3	
*BUS 112	Quantitative Business				
	Methods .....	3	0	3	
BUS 107	Freshman Experience ..	1	0	1	
			17	0	17
Spring Semester					
BUS 120W	Business Law II .....	3	0	3	
BUS 248	Human Resource				
	Management .....	3	0	3	
ECO 110W	Micro Economics .....	3	0	3	
PSY 110	General Psychology .....	3	0	3	
SPK 102	Effective Speaking .....	3	0	3	
			15	0	15
SECOND YEAR					
Fall Semester					
#BUS 229	Advertising .....	4	0	4	
CST 107	Business Appl. Micro				
	Computer .....	3	0	3	
BUS 152	Selling Fundamentals ..	3	0	3	
PHS 111	Physical Science				
	for Today .....	2	2	3	
BUS	Business Elective .....	3-4	0	3-4	
ENG 220	Communicating About				
	Values .....	3	0	3	
			18-19	2	19-20
Spring Semester					
#BUS 129	Consumer Behavior .....	3	0	3	
BUS 269	Business Reports & Computer				
	Communications .....	3	0	3	
#BUS 242	Marketing Seminar .....	3	0	3	
BUS 245	Management:				
	A Behavioral				
	Approach .....	3	0	3	
#BUS 267	Retailing in a Service				
	Economy .....	3	0	3	
---	Mathematics or Science				
	Elective .....	3-4	0-3	3-4	
			18-19	0-3	18-19

Total Credits: 69-71

\*Depending on Mathematics entrance testing scores and Math background, the student will take: MAT 090 and QBM or QBM or Introduction to Business

# Take these courses in the semester (spring or fall) indicated. They are not offered in all semesters.

† Students who are planning to transfer are advised to take a four credit lab science elective.

W - Writing Emphasis Course

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

# TRAVEL AND TOURISM

COORDINATOR, Joan Bandurchin  
Business Building  
Telephone 778-5008

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR		Hours		Credits per Semester
		per Week		
Fall Semester		Class	Lab	
BUS 100	Accounting I .....	4	0	4
BUS 107	Freshman Experience ..	1	0	1
*BUS 112	Quantitative Business Methods .....	3	0	3
BUS 118	Business Law I .....	3	0	3
BUS 141	Marketing .....	3	0	3
ENG 110	Written Expression .....	3	0	3
		17	0	17
Spring Semester				
CST 107	Bus. Applic. on Microcomputer .....	3	0	3
BUS 229	Advertising .....	4	0	4
DOT 100	Keyboarding .....	1	0	1
**TTM 102	Intro to Travel & Tourism	3	0	3
GEO 120	World Geography .....	3	0	3
BUS 120W	Business Law II .....	3	0	3
		17	0	17
SECOND YEAR				
Fall Semester				
BUS 152	Selling Fundamentals ..	3	0	3
ECO 110W	Microeconomics .....	3	0	3
**TTM 117W	Tourism Suppliers & Wholesalers .....	3	0	3
**TTM 217	Airline Ticketing & Documentation .....	3	0	3
**TTM 260	Destination/Convention Marketing & Management	3	0	3
MAT 113	Math Explorations (or > # math course) ...	3	0	3
		18	0	18
Spring Semester				
Select one of the following:				
\$TTM 298	Travel & Tourism Externship OR			
BUS —	Business Elective .....	3	0	3
BUS 262	Small Business Mgmt. .	3	0	3
ENG 220	Communicating About Values .....	3	0	3
SPK 102	Effective Speaking .....	3	0	3
**TTM 291	Computerized Reservations Systems .....	3	0	3
—	Math/Science Elective .	3	0	3
		18	0	18

Total Credits: 70

\*Depending on Mathematics entrance testing scores and Math background, the student will take: MAT 090 and QBM or QBM or Introduction to Business

\*\*Take these courses in the semester (fall or spring) indicated. They may not be offered every semester.

\$ Internships may be taken and/or completed during the summer.



# ASSOCIATE IN APPLIED SCIENCE - BUSINESS

## (FOR PART-TIME EVENING AND WEEKEND STUDENTS ONLY)

### ACCOUNTING

DEPARTMENT CHAIRPERSON, Richard Behr, 778-5008  
ACADEMIC ADVISOR, Wayne Lockwood, 778-5008

**SUGGESTED SEQUENCE:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

Introductory Courses		Credits
BUS 100	Accounting I .....	4
#BUS 112	Quan. Business Methods .....	3
BUS 118	Business Law I .....	3
BUS 141	Marketing .....	3
ENG 110	Written Expression I .....	3

#### Additional Courses for Certificate

BUS 101	Accounting II .....	4
BUS 200	Intermediate Accounting I .....	4
BUS	Business Elective .....	3-4
CST 107	Bus Aplctn Micro Comp .....	3
—	Social Science Elective .....	3

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#### Remaining Courses for Degree

BUS 120W	Business Law II .....	3
BUS 201	Intermediate Accounting II .....	4
BUS 205	Cost Accounting I .....	4
BUS 210	Managerial Accounting or	
BUS 206	Cost Accounting II .....	4
ENG 220	Communicating About Values .....	3
† —	Math or Science Elective .....	3-4
* —	Math 117 or higher numbered Math Course .....	3-4
SPK 102	Effective Speaking .....	3
BUS	Business Elective .....	3-4
ECO 110W	Micro Economics .....	3

AAS-Business (Accounting)

Total Credits

66-70

#Depending on Mathematics entrance test scores and math background, the student will take: MAT 090 and QBM, or QBM, or Introduction to Business.

†Students who are planning to transfer are advised to take a four credit lab science elective.

\*Students planning to transfer are advised to take MAT 139 or higher.

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

### MARKETING/ MANAGEMENT/SALES

#### General Emphasis

**SUGGESTED SEQUENCE:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

Introductory Courses		Credits
BUS 100	Accounting I .....	4
BUS 101	Accounting II .....	4
#BUS 112	Quan. Business Methods .....	3
BUS 118	Business Law I .....	3
ENG 110	Written Expression I .....	3
BUS 141	Marketing .....	3

#### Additional Courses for Certificate

BUS 269	Business Reports and Computer Communications ...	3
—	Liberal Arts and Related Careers Elective .....	3
BUS	Business Electives .....	7

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#### Remaining Courses for Degree

BUS 120W	Business Law II .....	3
BUS	Business Electives .....	8
—	Business Related Electives .....	3
—	(see below)	
—	Social Science Elective .....	3
ENG 220	Communicating About Values .....	3
BUS 115	Business Statistics .....	3
†PHS 111	Physical Science for Today .....	3
—	Math or Science Elective .....	3-4
ECO 110W	Micro Economics .....	3
CST 107	Bus Aplctn Micro Comp .....	3

AAS in Marketing/Management

Total Credits

68-69

Suggested Management Electives: BUS 210, BUS 224, BUS 245, BUS 246, BUS 248, BUS 252, BUS 255, BUS 258, BUS 262, BUS 270.

Suggested Marketing Electives: BUS 110, BUS 129, BUS 131, BUS 135, BUS 152, BUS 154, BUS 229, BUS 238, BUS 262, BUS 264.

Business related courses choose from BUS, DOT, CST, TAE, MAT, MET, BNK.

†Students who are planning to transfer are advised to take a four credit lab science elective.

**NOTE:** A number of choices exist in The Business - General Emphasis Program. By carefully selecting the proper Business courses, students can generate a concentration in a particular field, such as Sales, Retailing or Management. To identify these courses, students should discuss their interests with their academic advisor.

#Depending on Mathematics entrance test scores and math background, the student will take: MAT 090 and QBM, or QBM, or Introduction to Business.



# OFFICE TECHNOLOGIES

DEPARTMENT CHAIRPERSON, Patricia Franks  
Business Building, Room 107  
Telephone 778-5008

Broome Community College offers two AAS degree programs of study in the Department of Executive Secretary, Administrative Assistant and Records Information Management. The department also offers a nine-month Office Technologies Certificate, several options for Unit of Concentration Certificates in Office Technologies and Records Information Management.

Executive Secretary students become proficient in a variety of skills through study in such courses as keyboarding, shorthand (symbolic or alphabetic), office procedures, word processing, and information processing applications. Graduates are prepared to handle administrative and word processing responsibilities in traditional offices as well as in electronic offices. These positions can be found in banking, business, insurance, legal, medical, governmental, educational, industrial, and engineering offices.

Administrative Assistant students concentrate their study in such areas as word processing concepts; text editing functions and applications; information processing using the spreadsheet, a data base, and graphics; and the administration of electronic offices. These graduates are prepared to handle the basic operations and administrative duties of the integrated electronic office.

Office Technologies Certificate students complete a thirty-credit option of study in nine months for entry-level employment. This program is especially attractive for students with liberal arts background or limited office skills training. These students can design their own program as outlined on page 68.

The Unit of Concentration Certificate is available for students who wish to obtain knowledge in a particular field without committing to a full-time degree program. A student may earn a certificate in Word/Information Processing, Shorthand/Speedwriting, Keyboarding, or Business Communications by completing from three to five courses as outlined on page 68.

The Records/Information Management program is designed to train students in the proper management of information, whether on paper, magnetic tape, parchment, computer disk, film, or optical disk. The program encompasses everything from the creation to distribution of records including retention, destruction, maintenance, archival preservation and micrographics. Graduates are prepared to fill management positions in local and state government offices as well as in business and industrial sites.

Students are encouraged to become members of Collegiate Secretaries International. Membership in this organization affords students the opportunity to combine an interest in new technology with inter-personal skills, develop teamworking abilities, network with peers and professionals, gain personal recognition, and meet community leaders.

## CURRICULUM ADVISORY COUNCIL EXECUTIVE SECRETARIAL WORD/INFORMATION PROCESSING OFFICE TECHNOLOGIES CERTIFICATE

LYNN BARSIGIAN — Columbian Financial Group  
SUSAN BOWERS — Broome County Office of Employment  
and Training  
KATHLEEN BROWN, CPS — IBM Corporation  
CAROL GORENFLO — Universal Instruments  
BENITA SICKLES — NYS Electric and Gas Corporation  
KAREN TREICHLER — CAE Link  
REBECCA ZELASKA — Staffings Personnel Systems

# EXECUTIVE SECRETARY

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR		Hours		Credits
		per Week		
Fall Semester		Class	Lab	per Semester
DOT 103	Keyboarding .....	2	3	3
DOT 109	Business English .....	3	0	3
*BUS 112	QBM .....	3	0	3
BUS 118	Business Law .....	3	0	3
ENG 110	Written Expression .....	3	0	3
		14	3	15

Spring Semester				
DOT 120	Word Processing Applications .....	2	3	3
DOT 110	Gregg Shorthand .....	2	3	3
DOT 151W	Business Communications	3	0	3
RIM 100	Intro to RIM .....	3	0	3
— —	Lab Science Elective ....	2	2	3
— —	Social Science Elective ..	3	0	3
		15	8	18

## SECOND YEAR

Fall Semester				
DOT 262	Personal & Professional Development Seminar .	3	0	3
DOT 113	Shorthand Transcription	2	3	3
DOT 215	Lotus 1-2-3 .....	3	0	3
BUS 100	Accounting I .....	4	0	4
SPK 102	Effective Speaking .....	3	0	3
		15	3	16

Spring Semester				
DOT 231	Shorthand Transcription	2	3	3
DOT 242W	Administrative Procedures & Technologies .....	3	3	3
DOT 270	Internship .....	2	0	2
ENG 220	Communicating About Values .....	3	0	3
— —	Math/Science Elective ..	2-3	2-3	3-4
— —	Social Science Elective	3	0	3
	Total Credits: (66-67)	15-16	5-6	17-18

W - Writing Emphasis Course

\*Depending on Mathematics entrance testing scores, the student will take MAT 090 and/or BUS 112.

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

§At least one of the social science electives must be from the following courses: ECO 111, HIS 130, POS 201/204, SOC 111, SOS 111/120/290.



# ADMINISTRATIVE ASSISTANT (Legal, Medical, Information Processing)

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR Fall Semester			Hours per Week		Credits per Semester
			Class	Lab	
DOT 103	Keyboarding .....	2	3	3	
DOT 109	Business English .....	3	0	3	
*BUS 112	QBM .....	3	0	3	
ENG 118	Business Law .....	3	0	3	
ENG 110	Written Expression .....	3	0	3	
		14	3	15	

<b>Spring Semester</b>				
DOT 120	Word Processing Applications .....	2	3	3
DOT 104	Document Formatting (Medical, Legal or General) .....	2	3	3
DOT 151W	Business Communications .....	3	0	3
RIM 100	Intro to RIM .....	3	0	3
— —	Lab Science Elective ....	2	2	3
— —	Social Science Elective .....	3	0	3
		15	8	18

## SECOND YEAR

<b>Fall Semester</b>				
DOT 262	Personal & Professional Development Seminar .	3	0	3
DOT 236	Machine Transcription (Medical, Legal or General) .....	2	3	3
DOT 215	Lotus 1-2-3 .....	3	0	3
BUS 100	Accounting I .....	4	0	4
SPK 102	Effective Speaking .....	3	0	3
		15	3	16

<b>Spring Semester</b>				
DOT 220	Presentation Graphics .	2	3	3
DOT 242W	Administration Procedures & Technologies (Medical, Legal or General) .....	3	3	3
DOT 270	Internship .....	2	0	2
ENG 220	Communicating About Values .....	3	0	3
— —	Math/Science Elective ..	2-3	2-3	3-4
— —	Social Science Elective .....	3	0	3
Total Credits: (66-67)		15-16	5-6	17-18

W - Writing Emphasis Course

\*Depending on Mathematics entrance testing scores, the student will take MAT 090 and/or BUS 112.

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

§At least one of the social science electives must be from the following courses: ECO 111, HIS 130, POS 201/204, SOC 111, SOS 111/120/290.

# Office Technologies Certificate

Candidates must complete the following requirements:

- a minimum of 30 academic credits with a GPA of 2.0 or higher
- 15 credits from the Department of Office Technologies
- 15 credits from any department on campus including Office Technologies
- meetings with an Office Technologies academic advisor to review course prerequisites and to plan the following semester.

## Suggested courses are:

DOT 103	Keyboarding
DOT 109	Business English
DOT 120	Word Processing
DOT 151W	Business Communications
DOT 215	Lotus 1-2-3
DOT 220	Presentation Graphics

## UNITS OF CONCENTRATION

Candidates may select one of the following options:

### KEYBOARDING

DOT 103	Keyboarding
DOT 104	Document Formatting
DOT 120	Word Processing

### BUSINESS COMMUNICATIONS

DOT 103	Keyboarding
DOT 109	Business English
DOT 151W	Business Communications

### SHORTHAND

DOT 110	Gregg Shorthand
DOT 113	Shorthand Transcription
DOT 231	Shorthand Applications

### INFORMATION PROCESSING

DOT 215	Lotus 1-2-3
DOT 220	Presentation Graphics
RIM 100	Introduction to Records & Information Management

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.



# RECORDS/INFORMATION MANAGEMENT



**Sequence of Courses:** This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

		Hours per Week		Credits per Semester
		Class	Lab	
<b>FIRST YEAR</b>				
<b>Fall Semester</b>				
DOT 103	Keyboarding .....	2	3	3
RIM 100	Introduction to RIM .....	3	0	3
ENG 110	Written Expression .....	3	0	3
BUS 248	Human Resource Mgmt. ....	3	0	3
PSY 110	Intro. to Psychology ....	3	0	3
		14	3	15
<b>Spring Semester</b>				
DOT 120	Word Processing .....	2	3	3
RIM 101	Systems & Functions of RIM .....	3	0	3
PHS 110	Physical Science for Information Mgmt. ....	2	2	3
ECO 110W	Microeconomics .....	3	0	3
BUS 100	Accounting .....	4	0	4
		14	5	16
<b>SECOND YEAR</b>				
<b>Fall Semester</b>				
DOT 215	Lotus 1-2-3 .....	3	0	3
RIM 200	Specialized Functions in RIM .....	3	0	3
BUS 110	Introduction to Business .....	3	0	3
MAT Elec.	(MAT 113, 114, 117, 124) .....	3	0	3
LA Elec.	.....	3	0	3
		15	0	15
<b>Spring Semester</b>				
DOT 250	Office Administration ...	3	0	3
RIM 297	Work Experience .....	3	0	3
BUS 118	Business Law I or Approved PLA course ...	3	0	3
ENG 220	Comm. About Values ...	3	0	3
Free Elec.	.....	3	0	3
		15	0	15
Total Credits: 61				

W - Writing Emphasis Course

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

# Records/Information Management Professional Certificate

The Professional Certificate program is designed for individuals that have a minimum of a two-year degree or two years of experience in a related field. Individuals pursuing the Professional Certificate may complete the eight required courses by attending classes following the model below:

		Hours per Week		Credits per Semester
		Class	Lab	
<b>FIRST YEAR</b>				
<b>Fall Semester</b>				
DOT 103	Keyboarding .....	2	3	3
RIM 100	Introduction to RIM.....	3	0	3
		5	3	6
<b>Spring Semester</b>				
DOT 120	Word Processing .....	2	3	3
RIM 101	Systems & Functions of RIM .....	3	0	3
		5	3	6
<b>SECOND YEAR</b>				
<b>Fall Semester</b>				
DOT 215	Lotus 1-2-3 .....	3	0	3
RIM 200	Specialized Functions in RIM .....	3	0	3
		6	0	6
<b>Spring Semester</b>				
DOT 250	Office Administration...	3	0	3
RIM 297	Work Experience .....	3	0	3
		6	0	6
Total Credits: 24				

Students should check with their advisor during the scheduling process to make sure courses are taken in proper sequence and any prerequisites have been met. Some flexibility is available as to when courses must be taken, but not all courses are offered every semester.

## CURRICULUM ADVISORY COUNCIL RECORDS/INFORMATION MANAGEMENT

MARY BUDNICK — Records Management Officer, Elmira City School District

RICHARD J. ELLIOT — Administrative Director, Cortland County IDA

ALAN EWING — Records Management Officer, Union Endicott School District

JAMES L. HACKETT — Clerk, Town of Union

SHIRLEY B. HESS — Acting Director, Teacher Center of Broome County

RICHARD A. HOGAN — Clerk, Broome County

SALLY NELSON — Regional Analyst I, Southern Tier East Regional Planning



# DIVISION OF LIBERAL ARTS AND RELATED CAREERS

DIVISION DEAN, George Higginbottom  
Titchener Hall, Room 210  
Telephone 778-5031

One of four academic divisions of the college, Liberal Arts and Related Careers has several important functions. First, it offers traditional university-parallel programs—the Associate in Arts and the Associate in Science—to students aspiring to baccalaureate degrees. Graduates transfer to institutions throughout the SUNY system and to public and private colleges in New York and other states.

Second, Liberal Arts and Related Careers sponsors a variety of career-oriented programs whose curricular requirements and whose knowledge bases are closely connected with liberal arts subjects. These include Communication and Media Arts, Mental Health (Counseling Psychology and Social Work), Criminal Justice, Early Childhood, Paralegal, and Fire Protection Technology. Several of these degree programs and concentrations are in helping professions commonly referred to as “human services.” Additionally, mature students wishing to pursue career goals or academic interests which cannot be accommodated in standard programs can opt for an Individual Studies (AS) degree program. Examples would be pre-architecture, music and music education, interior design and design arts, etc.

As its third major responsibility, Liberal Arts and Related Careers provides leadership in setting the standards for “general” education, the learning objectives shared by students in all of the college’s curricula. (see page 25)

Profiles of each of the division’s sponsored programs, together with advisement and career preparation information, follow.

## ACADEMIC ADVISEMENT

### FULL-TIME STUDENTS

Every full-time student is assigned a faculty advisor. All students are required to complete with their advisors a Degree Advisement Contract prior to each semester’s registration. Its purpose is to monitor the student’s progress toward the degree.

The divisional office staff is available to deal with special problems relating to academic requirements. While the faculty and staff will make every reasonable effort to help students with academic planning, students must also assume responsibility for their programs, and particularly, in familiarizing themselves with degree requirements.

### PART-TIME STUDENTS

Part-time day students who intend to matriculate in a degree program sponsored by the division should come to the office (Room 121 in Titchener Hall) to be assigned academic advisors. Students not interested in a degree, but merely seeking academic advice, may do so in the Liberal Arts Office. Part-time evening students will be advised by a divisional representative who works closely with personnel who staff the Career and Academic Advisement Center, Room 115 of the Wales Building.

## COMMUNICATION WITH STUDENTS

The division maintains bulletin boards in Titchener Hall lobby. Students are urged to check the boards regularly for information pertaining to academic advisement, career planning, cultural events, transfer opportunities, convocations and lectures, concerts, and the like. Important notices and messages for students will also be posted. **Check the boards!**



## ACADEMIC PROGRAMS LIBERAL ARTS AND SCIENCES

The Liberal Arts and Related Careers curriculum is mainly a two-year university-parallel program designed for those who wish to continue their college education at a four-year school. Graduates of the College in its Liberal Arts program receive either the Associate in Arts or Associate in Science degrees, depending on which course of study they complete.

Students completing this curriculum, its science option or its other emphases, will have a breadth of education that prepares them for many professional careers. The Science Option, for example, is excellent for those planning careers in forestry, chemistry, biology or medicine. Those aspiring to careers in the various professions will find alternatives in the Liberal Arts curriculum designed especially for them.

Students should be aware that many of these alternative curriculums presume a high level of preparation in the secondary school, and they should consult with faculty advisors or counselors when there is doubt about the adequacy of their pre-college academic background.

Prospective academic majors in the humanities, social sciences, biological sciences and physical education are also taught and advised by divisional faculty and staff. (Refer also to the Career Models on pages 74-76 and General Education requirements on page 25.)



## ASSOCIATE IN ARTS DEGREE

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full-time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part-time study.

	Credits Required
<b>English</b> .....	6
ENG 110 Written Expression I and ENG 220 Communicating About Values	
<b>History</b> .....	6
HIS 115 Modern Global History plus one other history (HIS) course.	
<b>Mathematics or elective (as advised)</b> .....	0-8
Students who have completed fewer than 3 units of secondary school mathematics (through Intermediate Algebra or "Course III")* are required to take a minimum of 2 semesters of college level mathematics. Students who have completed 3 units of secondary school mathematics (through Intermediate Algebra or "Course III") are required to take one semester of college level mathematics. Students who have completed more than 3 units of secondary school mathematics (including Intermediate Algebra or "Course III") are not required to take additional mathematics. They may, however, elect an appropriate math course or an elective in another field.	
<b>Laboratory Science</b> .....	8
A full-year sequence of Biology, Chemistry, Physics or Physical Science. Acceptable sequences: BIO 111-112 General Biology I and II; BIO 131-132 Human Biology I and II; BIO 150-151 Microbiology and Aquatic Biology; CHM 141-142 General Chemistry; CHM 145-146 Chemistry; PHY 161-162 Physics; PHS 113, 114, 115, 116 or 215 Physical Science (any 2).	
<b>Philosophy or Foreign Language Sequence</b> .....	6-8
Students are encouraged to take both, but they must complete a year (6-8 credits) of either a philosophy or a foreign language sequence.	
<b>Physical Education</b> .....	2
No more than 2 credits can be used to fulfill degree requirements. At least 1 credit from PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 148, 173.	
<b>Literature</b> .....	6
Two (2) LIT electives.	
<b>Social Science</b> .....	6
Courses from the following disciplines: anthropology, economics, geography, political science, psychology, sociology, social sciences. These have ANT, ECO, GEO, POS, PSY, SOC, SOS designators. At least 3 credits must be from the following courses: ECO 111, SOC 111, SOS 111/120, POS 201/204.	
<b>Electives</b> .....	14-24
Selections from approved listing preceding each semester's registration. Exceptions to receive approval of Dean of the LA Division.	
<b>Total number of credits</b> .....	64 minimum

## ASSOCIATE IN SCIENCE DEGREE: SCIENCE OPTION

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full-time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part-time study.

This program is designed for students planning careers in biology and forestry biology, chemistry and forest chemistry, the physical sciences, medicine, dentistry and related fields.

	Credits Required Per Year
<b>FIRST YEAR</b>	
<b>English</b> .....	3
ENG 110 Written Expression I	
<b>Literature</b> .....	3
Elective	
<b>History</b> .....	6
HIS 115 Modern Global History and any other history (HIS) course.	
<b>Mathematics</b> .....	8
MAT 181 and 182 Calculus with Analytic Geometry I and II, or if a student is not prepared for these courses, he or she may take MAT 139 Algebra and/or MAT 140 Trigonometry or MAT 161 Pre-Calculus mathematics first.	
<b>2 Laboratory Science Sequences</b> .....	16
BIO 111 and BIO 112 General Biology I and II and CHM 145 and CHM 146 Chemistry for those planning careers in medicine, veterinary medicine, dentistry, forest biology, marine biology, pharmacy or forest chemistry.	
<b>Physical Education</b> .....	2
A minimum of 1 credit must be taken from PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 148, 173.	
<b>SECOND YEAR</b>	
<b>English</b> .....	3
ENG 220 Communicating About Values	
<b>Literature</b> .....	3
LIT elective	
<b>Social Science</b> .....	6
Courses from the following disciplines - anthropology, economics, geography, political science, psychology, sociology, social science. These have ANT, ECO, GEO, POS, PSY, SOC, and SOS designators. At least 3 credits must be from among the following courses: ECO 111, SOS 111,120, POS 201/204, SOC 111	
<b>2 Laboratory Science Sequences</b> .....	16
PHY 161 and 162 Physics and CHM 245 and 246 Organic Chemistry, for those planning careers in medicine, veterinary medicine, dentistry, forest chemistry, forest biology, marine biology, or pharmacy.	
<b>Mathematics, Philosophy or Foreign Language</b> .....	6-7
A student must fulfill the mathematics requirements (above) before taking a philosophy or foreign language course. If the student wishes to take a math course more advanced than MAT 182 then he or she with the dean's approval may take another mathematics course. If the math requirement has been completed and the student does not elect to take additional mathematics, then he or she is required to take philosophy or foreign language courses.	
<b>Total number of credits</b> .....	72 minimum

\*General Math and Business Math cannot be used in meeting this requirement.



## TRANSFER

Students who have earned A.A. or A.S. degrees at Broome Community College and who intend to go on for baccalaureate degrees are guaranteed transfer to some four-year college or university of the State University of New York (SUNY). While transfer students are usually given full junior standing, there is no guarantee that students entering specialized programs can complete all degree requirements in four semesters.

Students are urged to learn as much as they can about program requirements at the institution(s) to which they might transfer. For example, many four-year schools require foreign language. The decision to take a language at Broome Community College might thus be influenced by whether or not it is required at the college to which one intends to transfer.

The Liberal Arts and Related Careers Division has in force a number of guaranteed transfer arrangements with public and private colleges. Inquiries about these arrangements should be made in Titchener Hall, Room 121, or the Counseling and Student Development Center, Wales, Room 200.

(Please see page 20 for a list of colleges with which we have special transfer agreements.)

## CAREER PREPARATION

For a great number of careers a broad background in liberal studies, as is presented in the Associate in Arts (AA) and Associate in Science (AS) degree programs, is essential. Students are urged to utilize the college's resources thoroughly, and as early as possible, in locating useful information about their intended academic majors and their career aspirations.

The divisional advisement system is one which aims to match students with advisors who share their interests. If questions pertaining to career preparation, transfer opportunities and job placement cannot be answered by the faculty advisors, students will be directed to others who can. These are elements of our career guidance support system.

Faculty Advisor

Liberal Arts & Related  
Careers Division Office  
Room T-121

Career Counselor/  
Transfer Counselor  
(Counseling Ctr.)  
Rm. W-200)



To start students thinking about a career and the preparation needed, a number of fields which suggest a liberal arts background are listed below. The college does not offer courses in all these areas, and in some cases the professional courses are taught only at the junior/senior level in baccalaureate programs.

Acting  
Architecture  
Art  
Chiropractic  
Commercial Art  
Communications  
Community/Human Service  
Counseling  
Criminal Justice  
Dentistry  
Design  
Energy Research  
Environment  
Foreign Service  
Forestry  
Government Service  
Human Ecology  
Interior Design  
Journalism  
Labor Relations  
Law  
Library Science  
Media Communications

Medicine  
Mental Health  
Music  
Oceanography  
Optometry  
Paralegal  
Personnel  
Pharmacy  
Physical Therapy  
Psychologist  
Public Administration  
Public Relations  
Public Service  
Publishing  
Recreation  
Social Work  
Scientific Research  
Sports Writing  
Teaching  
Technical Writing  
Translating  
Urban Planning  
Writing/Critic



# SPECIAL TRANSFER AGREEMENT PROGRAMS

These are special Agreement Programs with other Colleges and Universities in which students spend either their first year or first two years in BCC's Liberal Arts and Related Careers program and their last year(s) at another institution.

## HUMAN DEVELOPMENT AND FAMILY STUDIES

(SUNY College of Human Ecology at Cornell)

FIRST YEAR Courses	(Credits)	SECOND YEAR Courses	(Credits)
ENG 110	(3)	LIT elective	(3)
HIS 115 and elective	(6)	MAT elective	(3)
MAT 124	(3)	PSY 211 and 212	(6)
PSY 110	(3)	Social Science electives	(6)
*BIO 131 and 132	(8)	FREE electives	(9)
Philosophy or Foreign Language	(6-8)	Physical Education	(1)
Physical Education	(1)	ENG 220	(3)
LIT elective	(3)		
Total	33	Total	31

## FOREST CHEMISTRY

(SUNY College of Environmental Science and Forestry, Syracuse)

FIRST YEAR Courses	(Credits)	SECOND YEAR Courses	(Credits)
*ENG 110	(3)	LIT elective	(3)
*HIS 115 and elective	(6)	CHM 245, 246	(10)
BIO 111 and 112	(8)	PHY 161, 162	(8)
CHM 145 and 146	(8)	ECO 110	(3)
MAT 181	(4)	Philosophy elective	(3)
Philosophy elective or MAT 182	(3)	Physical Education	(2)
LIT elective	(3)	ENG 220	(3)
Total	35	Total	32

## RESPIRATORY THERAPY (1+1)

(Transfer to SUNY Health Science Center at Syracuse)

FIRST YEAR Courses	(Credits)	
ENG 110	(3)	— GPA requirement is 3.0 (B)
*HIS 115 and elective	(6)	
Philosophy or Foreign Language	(3)	— Requires also observation or
Laboratory Science	(8)	volunteer work in a
*BIO 131 and 132		respiratory therapy setting.
MAT elective	(3-4)	
Physical Education	(2)	
LIT elective	(3)	
Total	31	

## SOCIAL WORK

(SUNY College of Human Ecology at Cornell)

FIRST YEAR Courses	(Credits)	SECOND YEAR Courses	(Credits)
ENG 110	(3)	LIT elective	(3)
*HIS 115 and elective	(6)	Philosophy or Foreign Language	(6-8)
Laboratory Science sequence	(8)	CST 105 or 115	(3)
*BIO 131 and 132		ENG 220	(3)
MAT elective (MAT 124)	(3)	PSY 210, 214	(6)
PSY 110 and SOC 110	(6)	SOC 230	(3)
LIT elective	(3)	Electives	(9)
Physical Education	(2)	ECO 110/111, SOS 111/SOC 111	
Total	31	Total	33

## ENVIRONMENT AND FOREST BIOLOGY

(SUNY College of Environmental Science and Forestry, Syracuse)

FIRST YEAR Courses	(Credits)	SECOND YEAR Courses	(Credits)
ENG 110	(3)	LIT elective	(3)
*CHM 145 and 146	(8)	Philosophy or Foreign Language	
BIO 111 and 112	(8)	or Math	(6-8)
MAT 181	(4)	CHM 245 and 246	(10)
HIS 115 and elective	(6)	Social Science electives	(6)
Physical Ed. elective	(2)	PHY 161 and 162	(8)
LIT elective	(3)	ENG 220	
Total	34	Total	36-38

## CONSUMER ECONOMICS AND HOUSING

(SUNY College of Human Ecology at Cornell)

FIRST YEAR Courses	(Credits)	SECOND YEAR Courses	(Credits)
ENG 110	(3)	LIT elective	(3)
*MAT 145 and 146	(6)	ECO 110 and 111	(6)
HIS 115 and elective	(6)	CST 110	(3)
Laboratory Science electives	(8)	PED	(1)
BIO 131/132 or CHM 145/146 or			
PHY 161/162		POS 201	(3)
Philosophy or Language	(6-8)	BUS 141	(3)
Physical Education	(1)	PSY 110	(3)
LIT elective	(3)	ENG 220	(3)
		SOC 110	(3)
		Free Electives	(3)
Total	34	Total	32-34

Freshman year BCC, Sophomore year at:

DELHI A&T

General Agriculture  
Animal Husbandry — Dairy

CANTON A&T

Mortuary Science

WANAKENA

See Forest Technology  
Model Program

Details in Titchener Hall, Room 121

## NURSING (Transfer to Binghamton University's Decker School of Nursing for a B.S. degree)

FIRST YEAR Courses	(Credits)	SECOND YEAR Courses	(Credits)
ENG 110	(3)	ENG 220	(3)
Social Science elective	(6)	BIO 150	(4)
MAT 124	(3)	PSY 210	(3)
CHM 141 and 142	(8)	Social Science electives	(6)
BIO 131 and 132	(8)	Humanities elective	(3)
Humanities elective	(3)	Electives	(11)
PSY 110	(3)	PED	(1)
Total	34	Total	31

\*These courses are "strongly recommended"

†These courses are "recommended"



# Baccalaureate Transfer Sequences Within the Liberal Arts Program

By appropriate course selection in consultations with a faculty advisor students pursuing the A.A. and A.S. Liberal Arts and Science degree may prepare for transfer to upper-division study in the subject areas listed below and on the following page.

\*All students must meet General Education requirements (see page 25).

## ART & DESIGN

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	Humanities elective	(3)
ART 105	(3)	Social Science elective (Civic Ed.)	(3)
ART 102/103/108/109/120	(3)	PSY 110	(3)
ART 115	(3)	Emphasis Course (as advised)	(6)
Foreign Language	(3-4)	PED elective (1 credit in "fitness" mode)	(1)
LIT (W) elective	(3)	ENG 220	(3)
ART 106 or INT 105 (as advised)	(3)	Lab Science/Math elective	(3-4)
Foreign Language	(3-4)	HIS 115	(3)
Emphasis Courses (as advised)	(6)	Emphasis Courses (as advised)	(6)
		PED elective	(1)
Total	30-32	Total	32-33

## AMERICAN STUDIES

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	LIT 210/211	(6)
HIS 115	(3)	HIS 131/187	(6)
HIS 130	(3)	ENG 220	(3)
Philosophy or Foreign Language	(6)	Social Science elective	(6)
MAT electives	(3-6)	*SOC 111, SOS 111, POS 204	
POS 201	(3)	Humanities electives	(9)
Laboratory Science	(8)	*LIT 230, 270, 272, 280	
Physical Ed.	(1)	Physical Ed..	(1)
Total	30-33	Total	31

\*Recommended

## CIVIL AND PUBLIC SERVICE

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	ENG 220	(3)
HIS 115 and elective	(6)	Philosophy elective	(3)
*HIS 131		*PHI 206	
Philosophy or Foreign Language	(3-4)	Social Science elective	(3)
MAT electives	(3-6)	*POS 204, SOS 111	
*MAT 124		Related electives	(20)
Laboratory Science sequence	(8)	ECO 110, 111	
Social Science elective	(3)	PSY 110	
*POS 201		SOC 110, 111	
Physical Ed. electives	(2)	BUS 100, 245, 249	
LIT elective	(3)	LIT elective	(3)
Total	31-35	Total	32

## CRIMINAL JUSTICE (Baccalaureate Transfer Program)

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	Laboratory Science sequence	(8)
HIS 115	(3)	*CHM 120 and 121	
MAT electives	(6-8)	Philosophy or Foreign Language	(6-8)
*MAT 124		LIT elective	(3)
LIT elective	(3)	Criminal Justice electives	(9)
POS 201	(3)	ENG 220	(3)
Social Science elective	(6)	*SOC 210	(3)
*PSY 110 and SOC 110 or 111			
Criminal Justice electives			
*CRJ 101	(6)		
Physical Ed. electives	(2)		
Total	32-34	Total	32-34

## CYTOTECHNOLOGY

(For transfer to the SUNY Health Science Center at Syracuse)

\*"B" grades in science courses required)

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	BIO 131 and 132	(8)
BIO 111 and 112	(8)	LIT elective	(3)
CHM 145 and 146	(8)	Social Science electives	(6)
LIT elective	(3)	Physical Ed. electives	(2)
BIO 150	(4)	Philosophy or Foreign Language	(6-8)
MAT 124	(3)	ENG 220	(3)
HIS 115 and elective	(6)	Elective	(3)
Total	35	Total	31-33

## EARLY CHILDHOOD (Pre-School and Day Care)

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	HIS 115 and elective	(6)
MAT electives	(6)	Philosophy or Foreign Language	(6-8)
Laboratory Science sequences	(8)	LIT elective	(3)
*BIO 131/132 or BIO 111/112		*LIT 263	
Social Science	(6)	Early Childhood electives	(9)
*PSY 110		Free electives	(3-6)
*SOC 111/SOS 111		†PSY electives	
Early Childhood electives	(6)	†THR or MUS electives	
*ECE 100		ENG 220	(3)
Physical Ed. electives	(2)		
LIT elective	(3)		
Total	34	Total	30-32

## ELEMENTARY EDUCATION (Kindergarten to Gr. 6)

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	LIT elective	(3)
HIS 115	(3)	ENG 220	(3)
MAT 119 and 120	(6)	Foreign Language	(6-8)
Laboratory Science sequences	(8)	HIS elective	(3)
LIT elective	(3)	Electives	(18)
Social Science electives	(6)	*PHI 203	
*PSY 110		*PSY 210, 211	
*SOC 111/SOS 111		*ART electives	
		*MUS electives	
		*THR electives	
PED electives	(2)		
Total	31	Total	33-35

## FOREST RESOURCES MANAGEMENT

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	Philosophy or Foreign Language	(6-8)
HIS 115 and elective	(6)	ENG 220	(3)
MAT 181	(4)	LIT elective	(3)
		Social Science electives	(6)
		*ECO 110 POS 201	
Laboratory Science sequences	(8)	Laboratory Science	(8)
*BIO 111 and 112		*PHY 161/162	
Physical Ed. electives	(2)	CST 105	(3)
LIT elective	(3)	Free electives	(3)
*CHM 145 and 146	(8)	†PSY 110, SOC 110, 111	
		*POS 204, MAT 182 or 124	
Total	34	Total	32-34

## FOREST TECHNOLOGY

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)		
LIT elective	(3)		
MAT 139 and 140	(8)		
ECO 110 or 111	(3)		
BIO 111 and 112	(8)		
Electives	(6)		
*BIO			
Total	31		

## GLOBAL STUDIES

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	ENG 220	(3)
HIS 115	(3)	LIT elective	(3)
HIS 190	(3)	PHI 104	(3)
Foreign Language	(6)	HIS 141	(3)
LIT 233	(3)	SOS 116	(3)
MAT elective	(3-6)	ECO 111	(3)
Laboratory Science	(8)	Foreign Language	(6)
Physical Education	(1)	Electives	(6)
		Physical Education	(1)
Total	31-33	Total	31



## INTERIOR DESIGN

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	INT 210	(4)
ART 102/109	(3)	INT 122	(3)
ART 105	(3)	INT 141	(2)
Math/Science electives	(8)	INT 211	(4)
INT 105	(3)	ART 108/103	(3)
Liberal Arts elective	(3)	Social Science elective	(3)
Social Science elective	(3)	Electives Art and Design	(6)
INT 205	(3)	ENG 220	(3)
INT 142	(2)	Physical Education	(1)
Physical Education	(1)	ART 150	(3)
Total	32	Total	32

## INTERNATIONAL RELATIONS

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	Foreign Language	(6)
Foreign Language	(6)	POS 203/SOS 111	(3)
MAT electives	(3-6)	LIT elective	(3)
HIS 115 and elective	(6)	Electives	(18)
Laboratory Science sequence	(8)	Language	
LIT elective	(3)	Business in the Global Environment	
ANT 111	(3)	Oriental Art	
PED electives	(2)	History, Social Science	
		ENG 220	(3)
Total	34-36	Total	33

## LANDSCAPE ARCHITECTURE

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	LIT electives	(6)
		CIV 115, CIV 119, or 159	(4)
HIS 115 and elective	(6)	Social Science electives	(6)
MAT electives	(0-8)	ENG 220	(3)
*MAT 139, 140		Philosophy or Foreign Language	(6)
†MAT 181, 182		Related courses	(6)
Laboratory Science sequence	(8)	*ART 106, 109	
*BIO 111, 112		*CIV 111, 115	
Physical Ed. elective	(1)	*CST 110	
		INT 205	
ART elective: 103, 105, 108	(6)	*PHS 116	
		*PHY 161	
		Physical Ed. elective	(1)
Total	32	Total	32

## MATH AND MATH EDUCATION

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	MAT 281	(4)
HIS 115 and elective	(6)	MAT 264	(4)
MAT 181/182	(8)	Laboratory Science	(8)
MAT 124/224	(6)	†PHY 161, 162	
LIT electives	(6)	Philosophy elective	(3)
PHI 202	(3)	MAT 266	(3)
PED electives	(2)	MAT 250 or 282	(4)
		Social Science electives	(6)
		ENG 220	(3)
Total	34	Total	32-35

## MEDICAL TECHNOLOGY

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	BIO 131	(4)
BIO 111 and 112	(8)	BIO 150	(4)
CHM 145 and 146	(8)	CHM 245	(5)
MAT 161 or equivalent	(4)	PSY 110	(3)
HIS 115	(3)	HIS elective	(3)
LIT elective	(3)	ENG 220	(3)
Philosophy or Foreign Language	(6)	Social Science elective	(3)
		CHM 224	(4)
		LIT elective	(3)
		Physical Ed. electives	(2)
Total	35	Total	34

## MENTAL HEALTH/HUMAN SERVICES

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	ENG 220	(3)
HIS 115	(3)	PSY 214	(3)
PSY 110	(3)	PSY 217	(3)
SOC 110 or 111	(3)	PSY 223	(3)
LIT elective	(3)	PSY 227	(3)
MAT (as advised)	(3-4)	SOC 111 or POS 201	(3)
Laboratory Science Sequence		SOC 250	(3)
(BIO 131 and 132 recommended)	(8)	SOS 290	(3)
PHI elective	(3)	Liberal Arts elective	(3)
Physical Ed electives	(2)	Approved electives	(3)
		MAT 124	(3)
Total	31-32	Total	33

## MUSIC EDUCATION AND MUSIC PERFORMANCE

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	ENG 220	(3)
Social Science elective	(3)	Social Science elective	(3)
Liberal Arts electives	(6)	Liberal Arts electives	(6)
Laboratory Science or Math	(4)	Laboratory Science or Math	(4)
Physical Ed. elective	(1)	Physical Ed. elective	(1)
MUS 101	(3)	MUS 112	(3)
MUS 105, 106	(6)	MUS 107	(3)
MUS 115, 116	(2)	MUS 117	(1)
MUS 120, 121	(2)	MUS 297, 298	(2)
MUS 197, 198	(2)	MUS electives	(2)
Ensemble	(2)	Ensemble	(2)
Total	34	Total	30

## PHYSICAL EDUCATION/RECREATION

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	LIT elective	(6)
HIS 115 and elective	(6)	Social Science electives	(6)
MAT electives	(0-6)	*SOC 111/SOS 111/SOS 130	
Philosophy or Foreign Language	(6)	*PSY 210 or 214	
PHI 203 and elective		Laboratory Science sequence	(8)
PED 118 or 119/electives	(2)	†BIO 111, 112, or 131, 132	
Related electives	(9)	Related electives	(9)
*PSY 110		ENG 220	(3)
*ART, MUS, THR, SPK			
Total	32	Total	32

## PHYSICAL THERAPY

(For Transfer to SUNY Health Science Center at Syracuse "B" grades in all required courses)

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	PHY 161 and 162	(8)
MAT 161		PSY 110 and 211	(6)
(181 recommended)	(4)	SOC 110	(3)
BIO 111 and 112	(8)	ENG 220	(3)
CHM 145 and 146	(8)	Philosophy or Foreign Language	(6-8)
HIS 115 and elective	(6)	LIT elective	(3)
LIT elective	(3)	Physical Ed. electives	(2)
Total	32	Total	32-33

## PRE-ARCHITECTURE

(Suggested Course Selections)

FIRST YEAR		SECOND YEAR	
Courses	(Credits)	Courses	(Credits)
ENG 110	(3)	LIT Elective	(3)
PSY 110	(3)	ART 105/106	(6)
PHY 161/162	(8)	Social Science elective	(3)
CIV 115	(2)	CAD 150	(2)
MAT 181	(4)	CAD 205	(3)
ECO 110	(3)	CIV 238	(3)
CIV 119	(2)	Electives	(12)
ART 108/109	(6)	PHI 111/112	
Physical Education	(1)	CIV, CST, ART, INT	
		Physical Education	(1)
Total	32	Total	33



## PRE-LAW

(Suggested Course Selections)

### FIRST YEAR

Courses	(Credits)
ENG 110	(3)
HIS 115	(3)
MAT electives	(0-6)
Laboratory Science sequence	(8)
Foreign Language or Philosophy	(6)
PHI 206, 201, 202	
LIT elective	(3)
PED elective	(1)
ART, MUS, THR	(3)

Total 33

### SECOND YEAR

Courses	(Credits)
LIT elective	(3)
Social Science electives	(6)
Electives	(18)
BUS 118	
POS 201, 204	
ECO 110, 111, 104	
SOC 110, 111, SOS 111	
HIS 130, 131	
PSY 110	
BUS 100	
ENG 220	(3)
HIS elective	(3)

Total 33

## PRE-PHARMACY

(Compatible with Pharmacy at University at Buffalo)

(Suggested Course Selections)

### FIRST YEAR

Courses	(Credits)
ENG 110	(3)
LIT elective	(3)
HIS 115	(3)
BIO 111/112	(8)
MAT 181/182	(8)
CHM 145/146	(8)
PED	(1)

Total 34

### SECOND YEAR

Courses	(Credits)
LIT elective	(3)
ENG 220	(3)
Social Sciences	(6)
CHM 245/246	(10)
PHY 161/162	(8)
PHI elective	(3)
PED	(1)

Total 34

## SPECIAL EDUCATION (Elementary and Secondary)

(Suggested Course Selections)

### FIRST YEAR

Courses	(Credits)
ENG 110	(3)
HIS 115	(3)
MAT electives	(6)
*MAT 119, 120, 113, 114	
Laboratory Science sequence	(8)
*BIO 131, 132	
Social Science elective	(3)
*PSY 110	
Philosophy or Foreign Language	(6)
*PHI 203	
LIT elective	(3)

Total 32

### SECOND YEAR

Courses	(Credits)
LIT elective	(3)
ENG 220	(3)
HIS elective	(3)
Social Science elective	(3)
SOC 111/SOS 111	
Physical Ed. electives	(2)
Related electives	(18)
*PSY electives	
*MUS, THR, ART	
*HUS 120	

Total 32

## WOMEN'S STUDIES

(Suggested Course Selections)

### FIRST YEAR

Courses	(Credits)
ENG 110	(3)
HIS 115	(3)
LIT 250	(3)
Laboratory Science sequence	(8)
HIS 183	(3)
MAT elective	(6)
Philosophy or Foreign Language	(6)
PED elective	(2)

Total 34

### SECOND YEAR

Courses	(Credits)
ENG 220	(3)
LIT electives	(3)
PSY 110	(3)
PSY 213	(3)
SOS 145	(3)
Civic Ed. electives	(3)
BIO 120	(3)
Electives	(9)

Total 30



# CAREER-ORIENTED PROGRAMS

## LIBERAL ARTS AND RELATED CAREERS

### COMMUNICATION AND MEDIA ARTS

DEPARTMENT CHAIRPERSON, Michael Kinney  
Alms House, Room 004  
Telephone 778-5323

PROGRAM COORDINATOR, John Butchko  
Titchener Hall, Room 103 Telephone 778-5101

The Program of instruction in Communication and Media Arts comprises theoretical and practically-oriented course offerings in audio and video production, photography, acting, and various types of written communication. Communications courses emphasize acquisition of both technical proficiency and theoretical knowledge.

The program aims, on the one hand, to prepare graduates for immediate employment in a variety of communications-related occupations, and on the other hand, for transfer to Baccalaureate programs.

Graduates entering the job market after earning the associate degree will seek employment as production assistants, educational media technicians, media sales representatives, writers, on-air talent and photographers.

Those transferring to upper division colleges will major in audio-visual technology, film and photography, technical communications, radio and TV broadcasting, journalism, graphic reproduction, acting and advertising. Subsequently, they will seek employment as photographers, filmmaker/cinematographers, scriptwriters, media producers, broadcasters, newspaper reporters, studio technicians, instructional media specialists, video and audio engineers, copy writers, media directors, actors and actresses production media specialists, and sales or marketing managers.



Sequence of Courses: This model is a two year course schedule (leading to an A.S. degree) for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

		Hours per Week		Credits per Semester
FIRST YEAR		Class	Lab	
<b>Fall Semester</b>				
ENG 110	Written Expression I....	3	0	3
PHI	or Foreign Language ...	3 (4)	0	3 (4)
COM 100	Intro to Mass Media .....	3	0	3
COM	Elective (choose one) ..	3	0	3
	*ART 112 -			
	*COM 125 -			
	*COM 130 -			
	*COM 205			
	*THR 140 - Presentation for Radio/TV			
MAT	Mathematics Elective ..	3	0	3
†PED	Phys. Ed. Elective			
	*THR 165 .....	0	2	1
		15 (16)	2	16 (17)
<b>Spring Semester</b>				
SOS 155W	Media and Society .....	3	0	3
HIS 115	Modern Global History	3	0	3
---	Elective (choose one) ..	3	0	3
	*COM 125			
	*COM 130			
	*COM 210			
	*THR 266/276			
---	Science Elective .....	3 (4)	0-1	4
---	Elective in Art/Music Theater or Foreign			
	Language .....	3 (4)	0	3 (4)
†PED	Phys. Ed. Elective			
	*THR 175 .....	0	2	1
		16 (17)	2	17 (18)

### SECOND YEAR

		Hours per Week		Credits per Semester
Fall Semester		Class	Lab	
COM 200W	Image Theory .....	3	0	3
CST 105	Understanding Computers	3	0	3
**COM electives .....		9	0	9
		15	0	15
<b>Spring Semester</b>				
COM 115	Writing for Media .....	3	0	3
ENG 220	Communicating About Values .....	3	0	3
---	Social Science Elective	3	0	3
**COM electives .....		6	0	6
		15 (16)	0	15

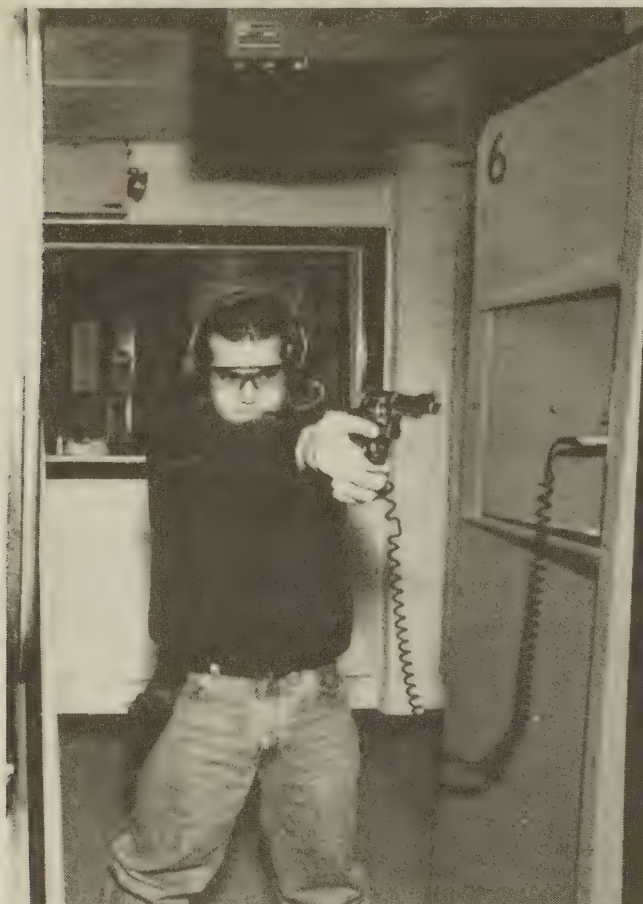
\* May be taken in place of PED offerings.

†A minimum of 1 credit must be taken from PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 148, 173.

\*\*COM electives ART 112, 212, COM 125, 130, 135, 145, 205, 210, (250 and 299 by advisement only), THR 140, 266, 276 or advisor approved elective.



# CRIMINAL JUSTICE



DEPARTMENT CHAIRPERSON, Francis J. Short  
Special Career Programs  
Titchener Hall, Room 210F  
Telephone 778-5087

COORDINATOR, Richard Fitzpatrick  
Titchener Hall, Room 211D  
Telephone 778-5029

This program is designed for full-time students desiring employment after two years of study. Careful planning and selection of courses is necessary to complete the program in two years. Consult the Criminal Justice Coordinator for specific details on selection of proper electives. Criminal Justice electives are described on page 94 and some Criminal Justice courses are given in the evening only. (Students entering in the spring semester may require more than four semesters to complete the degree.) Not for prospective law school students.

## CURRICULUM ADVISORY COUNCIL CRIMINAL JUSTICE

GENO DEANGELO — Sheriff, Broome County  
CARL FENESKY — Broome County Security Director  
ROBERT KENT — NYS Office of Parole  
ALEX MINOR — Binghamton Police Department  
DAVID NEMEC — Broome County Probation  
ROGER SHALLER — Binghamton Police Department  
HON. MARTIN SMITH — Broome County Judge  
KENNETH STICA — Vestal Police Chief  
STEPHEN VIZVARY — Security Consultant  
RICHARD WAFFLE — NYS Park Police  
J. BRADLEY WAHL — Broome County Probation

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

			Hours per Week		Credits per Semester
FIRST YEAR			Class	Lab	
Fall Semester					
ENG	110/				
	110S	Written Expression I....	3	0	3
SOC	110	Introduction to Sociology	3	0	3
CRJ	101	Introduction to Criminal Justice.....	3	0	3
CRJ	115	Juvenile Justice .....	3	0	3
PHI		Elective in Philosophy .	3	0	3
PED	118	Personal Fitness.....	0	2	1
			15	2	16

<b>Spring Semester</b>					
PSY	110	General Psychology ....	3	0	3
SPK	102	Effective Speaking .....	3	0	3
POS	204/	State and Local			
	201	Govt. or American Govt.	3	0	3
CRJ	105	Corrections .....	3	0	3
CRJ	215/	Police Administration/			
CRJ	230	Criminal Investigation	3	0	3
#PED		Physical Education			
		Elective .....	0	2	1
			15	2	16

## SECOND YEAR

<b>Fall Semester</b>					
CRJ	212W	Criminal Procedure and Constitutional Law .....	3	0	3
CRJ		Elective .....	3	0	3
** —		Math or Science Elective 3-4	3-4	0-3	3-4
— —		Psychology or Sociology Elective .....	3	0	3
		Human Development elective SAC 101/295/PSY 100 (one of three) .....	3	0	3
			15-16	0-3	15-16

<b>Spring Semester</b>					
CRJ	125	Penal Law .....	3	0	3
CRJ		Elective .....	3	0	3
— —		Free Elective .....	3	0	3
** —		Math or Science Elective 3-4	3-4	0-3	3-4
ENG	220	Communicating About Values .....	3	0	3
			15-16	0-3	15-16

## Recommendations for Electives

CRJ - 130, 225, 255, 260, 295  
MATH-SCI - CHM 120, 121, PHS 111, BIO 111-112,  
MAT 113-114, 117  
PSY - 217, 227, 210  
SOC - 210, 234, 111, 230  
PHI - 102, 206, 201  
SOS - 111

Two W emphasis courses are required after ENG 110 and before ENG 220.

W - Writing Emphasis Course

\*\*Recommended science courses are BIO 111, 112, 131, 132. Mathematics courses are by Placement Test; students usually take MAT 113, 114, 117, 124. (Developmental math may be necessary but is not creditable toward degree.)

#Two credits of Physical Education are required. One credit must be chosen from among: PED 118, 119, 127, 135, 143, 144, 146, 147, 148, 173.

General Education Requirements: See page 25.



# EARLY CHILDHOOD



DEPARTMENT CHAIRPERSON, Francis J. Short  
Department of Special Career Programs  
Titchener Hall, Room 210F  
Telephone 778-5087

COORDINATOR, Barbara Nilsen, Ed.D.  
Titchener Hall, Room 210G, Telephone 778-5029

The Early Childhood program leads to an Associate in Applied Science and is designed to prepare graduates for immediate employment or, in the case of those students who are already working in the Early Childhood field when they enroll, to improve their capabilities and increase their opportunities for advancement.

## This program is not for Elementary Education majors.

Students who know upon entrance to BCC that they want to transfer in Elementary Education should enroll in the Liberal Arts-AA Program.

The starting salary for graduates of the AAS degree program in Early Childhood who go to work immediately after graduation as aides or assistant teachers varies between \$5 and \$6 per hour. Director's positions usually require a baccalaureate degree with an average salary of \$14,000 to \$17,000 a year. Two year college graduates sometimes become directors with an additional salary which will vary with teachers' salaries.

A professional portfolio of materials pertaining to the education of young children is required of all students in the program. Assistance is provided in all classes for development of this material.

A Red Cross Safety and First Aid Certificate is recommended. Arrangements for this training are made each semester by the department. Added fee required.

## PLEASE NOTE

The curriculum display shown here is for full-time students, and they should be aware that careful advisement is necessary to enable them to be properly scheduled in this program to complete the work in two years. Anyone interested in enrolling as a full-time student should therefore, consult with the coordinator or department chairman first.

## CURRICULUM ADVISORY COUNCIL EARLY CHILDHOOD

MARILYN SCHAFFER — Former Coordinator, Early Childhood, Broome Community College  
ELLEN BOESBERG — School Age Child Care  
HELEN BUEMI — Education Coordinator Broome County Head Start  
ANNE CAMPBELL — Handicapped Children's Assoc.  
PAT MACUMBER — Broome County Dept. of Social Services  
PAT NASH — Endwell Nursery School  
NANCY SELIGA — B.C. Center  
RENEE HATTICH — Broome County Child Development Council  
JOAN VALLET — Family Day Care Giver

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

		Hours per Week		Credits per Semester
		Class	Lab	
<b>FIRST YEAR</b>				
<b>Fall Semester</b>				
ENG 110	Written Expression I....	3	0	3
PSY 110	General Psychology .....	3	0	3
ECE 100	Introduction to Education of Young Children .....	3	0	3
SPK 102	Effective Speaking .....	3	0	3
ECE 175	Techniques of Observation and Evaluation .....	3	0	3
#PED	Physical Ed. Elective ...	0	2	1
		15	0-2	16
<b>Spring Semester</b>				
SOC 110	Introduction to Sociology	3	0	3
PSY 211W	Child Development .....	3	0	3
ECE 120	Curriculum Development	3	0	3
*ECE	Elective .....	3	0	3
**---	Math/Science Elective .	3-4	0-3	3-4
#PED	Physical Ed. Elective ...	0	2	1
		15-16	0-5	16-17

## SECOND YEAR

<b>Fall Semester</b>				
ECE 200W	Practicum I .....	2	4	4
	Civic Ed. Elective .....	3	0	3
**---	Math/Science Elective .	3-4	0	3-4
*ECE	Early Childhood Elective	2	2	3
---	.... Humanities Elective	3	0	3
		13-14	0-6	16-17
<b>Spring Semester</b>				
ENG 220	Communicating About Values .....	3	0	3
ECE 201	Practicum II .....	2	4	4
*ECE	Early Childhood Elective	3	0	3
†---	..... Related Electives	3	0	6
		11	4	16

\* ECE electives may be taken from among ECE 115 Music for Young Children, ECE 140 Art for Young Children, ECE 150 Motor Development, ECE 160 Nutrition for Young Children, ECE Child Health and Safety, ECE 210 Special Needs Children in ECE, ECE 220 Issues and Innovations in Early Childhood, ECE 245 Social Development of Young Children, ECE 250 Language in Early Childhood, ECE 230 Working with Parents, ECE 260 Management and Administration.

† Related electives may be taken from among ECE electives, HUS 120 Basic Sign Communication, PSY 217 Counseling and Interviewing, PSY 227 Behavior Modification, SOC 230 Marriage, Family and Divorce, SAC 101 The Individual in a Changing Environment, SAC 295 Seminar in Human Potential or from other disciplines with permission of the coordinator or department chairperson. One must be from ECO 111, HIS 130, POS 201, 204, SOS 111, SOC 111, or SOS 120.

‡ Humanities electives include LIT 263 Children's Literature, THR 117 Creative Dramatics, THR 201 Children's Theatre, PHI 203 Philosophical Issues in Education. Others by permission.

W - Students must take two Writing Emphasis ("W") Courses after ENG 110 and before ENG 220

#Two credits of Physical Education are required. One credit must be chosen from among: PED 118, 119, 127, 135, 143, 144, 146, 147, 148, 173.

\*\*Recommended science courses are BIO 111, 112, 131, 132. Mathematics courses are by Placement Test; students usually take MAT 113, 114, 117, 124. (Developmental math may be necessary but is not creditable toward degree.)

ECE Courses may meet DSS Requirements for Training and Child Development Associate (CDA) credentials.

General Education Requirements: See page 25.



# FIRE PROTECTION TECHNOLOGY

## FOR PART-TIME STUDENTS

DEPARTMENT CHAIRPERSON: Francis J. Short  
Special Careers Programs  
Titchener Hall, Room 210F  
Telephone: 778-5087

COORDINATOR: Stephen Andrew  
Titchener Hall, Room 210  
Telephone: 778-5087

The Fire Protection Technology Program is designed to provide fire fighters and related fire service personnel with specialized training. The curriculum has been developed by a local advisory committee to meet the needs of the area, and specialized courses as well as general education courses constitute the degree program. Specialized courses include Fire Fighter Tactics and Strategy, Arson Investigation, Hydraulics, Hazardous Materials, Fire Prevention, and Building Construction.

This program is open to both paid and volunteer fire fighters of the community, as well as those persons in related firematic areas.

Introductory Courses	Credits
ENG 110 Written Expression 1	3
Fire Protection Courses	9
<b>Additional Courses for Certificate</b>	
Mathematics Elective (see list, next column)	3-4
Chemistry (see list, next column)	3
Social Sciences (see list, next column)	6
Fire Protection Courses	6
	30-31
<b>Remaining Courses for Degree</b>	
Fire Protection Courses	9
Management (see list, next column)	6
Electives (see list, next column)	12
ENG 220 Communicating About Values	3
AAS Fire Protection Technology	
Minimum Credits	60-61

## CURRICULUM ADVISORY COUNCIL FIRE PROTECTION TECHNOLOGY

STEPHEN ANDREW — BCC Coordinator  
THOMAS GEISENHOF — Codes Officer - Owego/Student Representative  
DAVID RICKARD — Chief - Five Mile Point Fire Company  
MICHAEL HEIDE — Endicott Fire Department  
MICHAEL ASWAD — County Fire Coordinator and Director of Emergency Services  
GEORGE MANEY — Fire Chief - Johnson City  
GEORGE SELTZER — President - Broome County Chiefs Assoc.  
RICHARD WASHINGTON — Binghamton Fire Department  
MICHAEL WASHINGTON — Binghamton Fire Department  
THOMAS VROMAN — Broome County Arson Task Force and Endicott Fire Department  
JAMES RYAN — NYS Fire Academy, Montour Falls  
JOHN KRATCHOVIL — IBM Endicott Fire Officer  
STEPHEN HRUSTICH — Endicott Fire Department  
HARRY SMITH — Binghamton Fire Department  
DONALD COLLINS — Endicott Fire Department

**SUGGESTED SEQUENCE FOR FULL TIME STUDENTS:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

### Introductory Courses

		Hours per Week		Credits per Semester
		Class	Lab	
<b>FIRST YEAR</b>				
<b>Fall Semester</b>				
ENG 110	Written Expression I....	3	0	3
FRS	Elective .....	3	0	3
FRS	Elective .....	3	0	3
	Chem or Math Elective	3	0	3-4
	Business Management			
	Elective .....	3	0	3
		15	0	15-16
<b>Spring Semester</b>				
	Free Elective .....	3	0	3
FRS	Elective .....	3	0	3
FRS	Elective .....	3	0	3
	Chem or Math Elective	3	0	3-4
	Business Management			
	Elective .....	3	0	3
		15	0	15-16
<b>SECOND YEAR</b>				
<b>Fall Semester</b>				
	Free Elective .....	3	0	3
FRS	Elective .....	3	0	3
FRS	Elective .....	3	0	3
	Social Science Elective	3	0	3
	Free Elective .....	3	0	3
		15	0	15
<b>Spring Semester</b>				
ENG 220	Communicating			
	About Values .....	3	0	3
FRS	Elective .....	3	0	3
FRS	Elective .....	3	0	3
	Social Science Elective	3	0	3
	Free Elective .....	3	0	3
		15	0	15

**NOTE:** Students must fulfill General Education Requirements. See page 25. [Courses taken at the New York State Fire Academy at Montour Falls will be reviewed for credit on an individual basis using the credit by exam policy.]

### Recommended Electives

Chemistry: Suggest CHM 120 or CHM 121

Mathematics: Suggest MAT 139 (4 Credits) 124, 117 or as dictated by placement test.

Social Sciences: Choose from History, Anthropology, Sociology, Psychology, Political Science, Economics. One course must be from the following: SOC 111, HIS 130/131, HIS 187, POS 201, 204, SOS 111/120, 130, ECO 110/111.

Fire Protection Courses: Select from FRS 101, FRS 103, FRS 105, FRS 107, FRS 108, FRS 110, FRS 200, FRS 201, FRS 204, FRS 205\*, FRS 250, FRS 299.

W - Writing Emphasis Course: Two are required after ENG 110 and before ENG 220

Management: Suggest BUS 245, 246, 248, 110, 118, 141, 249, 150.

Electives: Courses with FRS, MAT designators, CHM 121, or other courses with permission.

Fire Protection courses are offered on a rotation system. Each course is usually offered once every three semesters.

**General Education Requirements:** See page 25.



# INDIVIDUAL STUDIES

DEPARTMENT CHAIR, Francis J. Short  
Department of Special Career Programs  
Titchener Hall  
Telephone 778-5087

To provide opportunities for students with unusual needs or interests, Broome Community College allows selected students to structure individualized degree programs. The program requires the student to develop, with an advisor, an "area of concentration." **This area of concentration must be a cohesive program of study which the student can justify as having both educational and personal relevance.**

Completion of the Individual Studies Program can lead to an Associate in Science (AS) or Associate in Applied Science (AAS) degree, depending on the student's area of concentration. The AS degree program is designed for maximum transfer possibilities, and the AAS degree for immediate employment opportunities. **Admission into the program requires development of a Plan of Studies which is approved by the department chairman. This plan is developed by the student with a specific educational or career goal in mind.**

This is not a program for students unsure of their goals or exploring several areas of study.

Some requirements under review may change for students entering in the fall of 1994.

## Associate in Science Degree\* (60 credits)

- 30 Credits in student's Area of Concentration.
- 30 Credits in English, Humanities, Natural Sciences, Mathematics and Social Sciences distributed as follows.  
6 Credits in Humanities (ENG 110 and 220 required)  
6 Credits in Social Science (3 must be designated Civic Education courses)\*
- Mathematics (as advised) 0-6 or 8 credits  
8 Credits in Laboratory Science  
Liberal Arts Electives to make 62 credit total  
2 Credits in Physical Education one Credit minimum from PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 148, 173.

## Associate in Applied Science Degree\* (60 credits)

- Minimum of 20 semester credits in Liberal Arts and Sciences to include:  
6 Credits in Humanities (ENG 110 and ENG 220 required)  
6 Credits in Social Science (3 must be in designated Civic Education courses)  
8 Credits in Natural and Physical Science, including Mathematics
- 10 Credits of Technical Electives
- 30 Credits in student's Area of Concentration

For additional information contact the Department Chair.

\*Students in both AS and AAS programs must also satisfy General Education requirements: (see page 25).

NOTE: Two Writing Emphasis Courses are required after ENG 110 and before ENG 220

## Interior Design

### Certificate

**MORE INFORMATION:** COORDINATOR, Anne Boyer Cotten  
(Telephone 778-5315) ALMS 106

This is a credit program for individuals interested in a career in interior design or those currently employed in home furnishings or design related fields who would like to obtain greater knowledge and expertise. Those whose interests in design are not job-related are also encouraged to enroll.

Full-time Liberal Arts students are referred to the Art and Design Model for the A.A. degree above.

			Credits
ENG	110	Written Expression .....	3
ART	102 or 103	History of Western Art I or II .....	3
ART	105	Introduction to Design .....	3
ART	108 or 109	History of Architecture I or II .....	3
*INT	210	Interior Design I .....	4
*INT	211	Interior Design II .....	4
*INT	122	Professional Practice .....	3
*ART	150	Graphic Rendering .....	3
INT	105	Basic Drafting .....	3
*CIV	205	Introduction to Computer Graphics: Architecture .....	3
INT	141	History of Fabric .....	2
INT	142	Fabric Analysis .....	2
Total .....			36

\* These courses have prerequisites

## CURRICULUM ADVISORY COUNCIL INTERIOR DESIGN

JAMES BRYDEN, Architect  
MICHAEL CUCCI, Architect, Bearsch Compeau Associates  
BEVERLY FROST, Frost Interiors  
ROSEANNE GROFF, AIA; Partner, Bearsch, Compeau Associates  
ROBERT KELLER, Professor Emeritus, Art and Design, Broome Community College  
PATRICIA MURPHY, Graduate Assistant, Design Environment Analysis - Cornell University  
LILLIAN NEZELEK, Guidance Coordinator, Binghamton High School

# PARALEGAL

Sequence of Courses: This model is a two year course schedule for students meeting all program requirements and deciding to pursue full time study. Schedules will be redesigned for those requiring preparatory courses or those deciding to pursue part time study.

FIRST YEAR		Hours per Week		Credits per Semester
		Class	Lab	
Fall Semester				
PSY/		General Psych or Intro to		
SOC 110	Sociology .....	3	0	3
ENG 110	Written Expression I....	3	0	3
PLA 110	Survey of Paralegalism	3	0	3
BUS 100	Accounting I .....	4	0	4
BUS 118	Business Law I (Rec.) ..	3	0	3
‡PED	Physical Education .....	2	2	1
		18	2	17
Spring Semester				
— —	Arts and Sciences Elective	3	0	3
BUS 120W	Business Law II (Rec.) .	3	0	3
PLA 120	Advanced Paralegalism	3	0	3
— —	Arts/Science Elective ...	3	0	3
PLA 200	Real Property Law .....	3	0	3
‡PED	Physical Education .....	2	2	1
		17	2	16
SECOND YEAR				
Fall Semester				
— —	Math/Science Elective .	3-4	3	3-4
PLA 207W	Writing/Research .....	3	0	3
*— —	Social Science Elective	3	0	3
**PLA	Elective, 225			
	recommended .....	3	0	3
— —	Free Elective .....	3	0	3
		15-16	3	15-16
Spring Semester				
†— —	Math/Science Elective .	3-4	3	3-4
PLA 215	Estates, Probates .....	3	0	3
— —	Free Elective .....	3	0	3
*PLA	Elective .....	3	0	3
ENG 220	Communicating About			
	Values .....	3	0	3
		15-16	3	15-16

\*Choose one from the following: SOC 111, POS 201, SOS 111/120/130, ECO 111.

†Recommended Math/Sciences: MAT 113/114/124, PHS 111.

\*\*Some Criminal Justice courses can be used as PLA electives. Consult with the coordinator or chairperson.

‡Choose at least one credit from PED 118, 119, 127, 135, 137, 143, 144, 146, 147, 148, 173

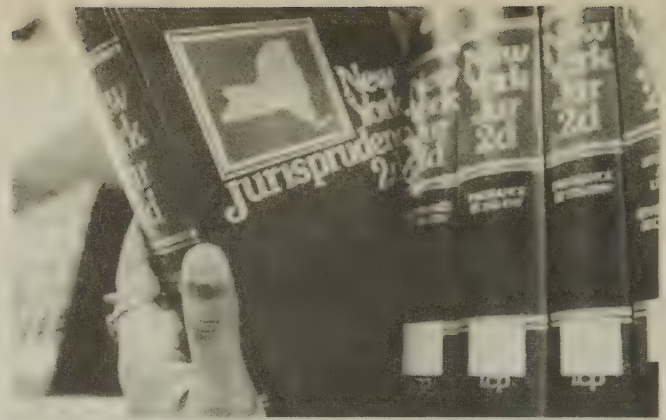
Two Writing Emphasis ("W") courses are required.

Arts/Science electives recommended: PHI 201, 206, SOC 111, SOS 111, POS 201, 204.

General Education requirements: See page 25.

## CURRICULUM ADVISORY COUNCIL PARALEGAL

LYNN FORESMAN — Southern Tier Association of Paralegals  
IDA GIALANELLA — Surrogate Court  
HON. JOHN HILLIS — Binghamton City Court Judge  
MARTIN J. KANE — Attorney - Chernin and Gold  
BEVERLY LEGOS — Court of Claims  
DEBORAH MCGUIRE — CLA - O'Connor, Gacioch & Pope  
MADELINE NEMCEK — Falcon Abstract  
EUGENE PECKHAM — Attorney - Hinman, Howard & Kattell  
TANYA SCHMELLER — Columbian Mutual Life Insurance  
PATRICIA SEXTON — Legal Assistant - Pearis, Resseque, Kline & Barb  
MATTHEW VITANZA — Attorney, Vitanza, Brown, Ciarvinno



**Suggested Sequence For Part-Time Students:** Students may select courses from any of the categories, but it is suggested that these sequences be followed to ensure that the proper prerequisites have been completed.

DEPARTMENT CHAIRPERSON: Francis J. Short  
Special Career Programs  
Titchener Hall., Room 210F  
Phone (607) 778-5087  
Coordinator: Gerald Loy  
Business Bldg.  
Phone (607) 778-5300

### Introductory Courses Credits

ENG 110	Written Expression I .....	3
PLA 110	Survey of Paralegalism .....	3
PSY 110	General Psychology .....	3
SOC 110	Introduction to Sociology .....	3

### Additional Courses for Certificate

— —	Liberal Arts Elective .....	3
PLA 215	Estates, Probates & Trusts .....	3
PLA 120	Advanced Paralegalism .....	3
PLA 270W	Legal Writing and Research .....	3
PLA 200	Real Property Law .....	3
PLA	(Paralegal) Elective .....	
— —	Business Law I Recommended .....	3
		30

### Remaining Courses for Degree

BUS 100	Accounting I .....	4
PLA	Paralegal Electives .....	6
— —	Math/Science Electives .....	6
— —	Social Science Elective .....	3
ENG 220	Communicating About Values .....	3
BUS	**Business Elective .....	3
— —	Free Electives .....	6
PED ‡	.....	
Physical Education	.....	2
		33

AAS Paralegal Minimum Credits 63

\*\*BUS 245, 248, 249 recommended

Suggested Math/Science Courses: MAT 113, MAT 114, MAT 124, MAT 145, BIO 111 or 112, CHM 120, PHS 111, , BIO 120.

This is not a pre-law program. Students wishing to transfer to four-year schools as pre-law majors should consult the department. There are no bachelor's degree programs in Paralegal Studies locally, but programs in related areas may be of interest to Paralegal students.

W - Writing Emphasis Course

Most Paralegal courses are scheduled in the evening. Many courses are not offered every semester.

General Education Requirements: See page 25.









# PART 3

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## COURSE DESCRIPTIONS



# COURSE DESCRIPTIONS

The offering of any course is subject to sufficient enrollment.

- Courses numbered from 100-199 are generally first level courses; those numbered 200-299 are usually second level.
- The number of credits is listed in parenthesis after the course title.
- The number of lecture and/or laboratory hours per week and any prerequisites are listed after the course descriptions.
- COURSES ARE LISTED IN ALPHABETICAL ORDER BY CALL LETTERS.

Anthropology - ANT  
Art - ART  
Banking - BNK  
Biology - BIO  
Business - BUS  
Cardiopulmonary Resuscitation - HSV  
Chemistry - CHM  
Civil - CIV  
Communications - COM  
Community Internship - CPT  
Computer Graphics - CAD  
Computer Studies - CST  
Criminal Justice - CRJ  
Dental Hygiene - DEN  
Dietary Manager - DIA  
Early Childhood - ECE  
Economics - ECO  
Electrical - EET  
Engineering - EGR  
English - ENG, ESL  
Fire Protection - FRS  
French - FRE  
Geography - GEO  
German - GER  
Health Care Management - HCM  
Health Information - HIT  
History - HIS  
Hotel/Restaurant Management - BHM  
Human Development - SAC  
Humanities - HUM

Interior Design - INT  
Italian - ITA  
Learning Skills - LRS  
Literature - LIT  
Mathematics - MAT  
Mechanical - MET  
Medical Assistant - MDA  
Medical Laboratory - MLT  
Music - MUS  
Nursing - ADN  
Office Technologies - DOT  
Paralegal - PLA  
Philosophy - PHI  
Physical Education - PED  
Physical Science - PHS  
Physical Therapist - PTA  
Physics - PHY  
Political Science - POS  
Psychology - PSY  
Quality Assurance - SQC  
Radiologic - RAD  
Reading Skills - RDG  
Russian - RUS  
Sign Language - HUS  
Social Science - SOS  
Sociology - SOC  
Spanish - SPA  
Speech - SPK  
Theater - THR  
Travel and Tourism - TAE/TTM

- All asterisked (\*) courses are taught evenings only and when enrollment permits.
- All (+) courses carry separate grades for lecture and laboratory.
- All (§) courses are combined lecture-laboratory courses and final grade depends on successful completion of both parts.

## **ADN 105 Meeting Human Needs I (6)**

The focus of this course is identifying and integrating the principles of Basic Human needs into the nursing care of persons across the life cycle.

The philosophy of the program, guided by Watson's Caring Model, is introduced. Gordon's Eleven Functions of Man which provides the organizing structure of the nursing program is also introduced.

Persons are viewed holistically in their "Health Healing Environment" (Watson) using Maslow's Hierarchy of Human Needs to guide nursing care. Emphasis is placed on health assessment, health promotion, and health maintenance related to self and others.

The nursing process is introduced as the modality through which critical thinking skills are applied in the delivery of care.

The student provides care in a variety of settings with close supervision. The nursing roles of provider of care, manager of care, and member of the discipline of nursing are introduced.

**4 Class Hours, 6 Clinical Hours**

## **ADN 106 Meeting Human Needs II (6)**

The focus of this course is on the nursing care of persons who have actual/potential health problems related to the health patterns of Health Perception/Health Management, and Nutrition/Metabolic. Classroom theory and clinical practice integrate all 11 of Gordon's Functional Health Patterns.

Integrated in the course are our beliefs about transpersonal caring, the nature of human beings, health and nursing. The concepts of hierarchy of human needs and life cycle are applied to the nursing care of persons with common health problems.

The nursing process is utilized as the modality through which critical thinking skills are applied in the delivery of care.

Emphasis is placed on health assessment, health promotion, health restoration and health maintenance.

The student provides nursing care with supervision in a variety of settings. The nursing roles of provider of care, manager of care and member of the discipline of nursing are further developed.

**4 Class Hours, 6 Clinical Hours**

## **ADN 111 Cultural Aspects of Health Care (2)**

The focus of this course is to help expand students' awareness and knowledge of cultural views of health. The course will explore and identify religious practices that influence the individual's belief and health practices.

Additionally, the course will identify socio-cultural barriers to health care. The importance of recognizing one's own ethnocentric health attitudes and the impact on the health care delivery system will be examined.

Current literature on diverse socio-cultural groups within the community will be reviewed.

**2 Class Hours**

## **ADN 112 Holistic Nursing (2)**

The course focuses on techniques that can be used in the clinical setting. We begin with an introduction to holistic health and holistic nursing. Then, caring as a component of the healing process will be explored. Thereafter, content is organized in terms of the spirit, mind and body components of man. Awareness of our own qualities that facilitate holistic nursing will be addressed. The body-mind connection in healing and disease will be discussed. Psychosomatic connections to illness and self healings will be discussed. The tools of meditation and creative visualization as a means of augmenting client's awareness and self care will be reviewed. Wellness assessment tools will be presented and utilized to assess the students' own level of health. The role of nutrition, exercise and relaxation in relation to wellness will be covered. Stress and its relationship to disease will be discussed.

**2 Class Hours**



**ADN 113 The Art of Caring (1)**

In our computerized, technological era, the humanness in society is often overlooked. The result can be detachment and fragmentation. This course proposes that a shift in emphasis from technology to caring be adapted to improve worker satisfaction and quality assurance. Students will explore the meaning and importance of caring based on history, theory and research with implications for health professionals as well as students preparing for careers involving interpersonal relationships. Through classroom activities, the student will be encouraged to develop a personal meaning of caring and design strategies for implementation of this concept. Content will also include evaluation of applications of caring methodology in various situations.

**1 Class Hour, 1 Clinical Hour**

**ADN 114 Nutrition for Health Promotion (2)**

This course is an introductory course in nutrition. It builds from basic principles of anatomy and physiology. Students will analyze their own nutritional status and modifications across the lifespan. Cultural dietary practices and vegetarian diets and food choices will be explored. Learning will focus on elements such as vitamins, minerals, water balance, diet, exercise and the stress response as it affects general nutritional status.

**2 Class Hours, 2 Clinical Hours**

**ADN 211 Meeting Human Needs III (13)**

The focus of this course is on the nursing care of persons who have actual/potential health problems related to health patterns of: Nutritional/Metabolic, Elimination, Activity/Exercise, Self-Perception, Sexuality/Reproductive, and Sleep/Rest. Classroom theory and clinical practice integrate all 11 of Gordon's Functional Health Patterns.

Integrated in this course are our beliefs about transpersonal caring, the nature of human beings, health and nursing. The concepts of hierarchy of human needs and life cycle are applied to the nursing care of persons with common health problems.

The nursing process is utilized as the modality through which critical thinking skills are applied in the delivery of care.

Emphasis is placed on health assessment, health promotion, health restoration and health maintenance. The student provides nursing care to persons in both specialty and general medical/surgical units. With increasing autonomy students assume the role of: provider of care, manager of care, and member of the discipline of nursing.

**9 Class Hours, 12 Clinical Hours**

**ADN 213 Meeting Human Needs IV(13)**

The focus of this course is on the nursing care of persons who have actual/potential health problems related to the health patterns of: Cognitive/Perceptual, Role/Relationship, Values and Beliefs, and Coping/Stress.

Integrated in this course are our beliefs about transpersonal caring, the nature of human beings, health and nursing. The concepts of hierarchy of human needs and life cycle are applied to the nursing care of persons with common health problems.

The nursing process is utilized as the modality through which critical thinking skills are applied in the delivery of care.

The nursing process is utilized as the modality through which critical thinking skills are applied in the delivery of care.

Emphasis is placed on health assessment, health promotion, health restoration and health maintenance. The student provides nursing care to persons in both specialty and general medical/surgical units. With increased autonomy students assume the role of: provider of care, manager of care, and member of the discipline of nursing.

**9 Class Hours, 12 Clinical Hours**

**ADN 298 Nursing Seminar III (1)**

The purpose of this course is to facilitate transition of returning, transfer and advanced placement students into the nursing program. The course focuses on the nursing department philosophy, the conceptual framework, the nursing process and use of the course syllabi. Students are required to practice and demonstrate selected nursing skills.

**1 Class Hour, 1 Clinical Hour**

**Prerequisites:** Students in this course must have met requirements for transfer or have passed the required challenge examination for advance placement

**ADN 299 Independent Study (1-3)**

An individual student project in the nursing field which is beyond the scope of requirements of the courses offered by the department conducted under the direction of a nursing faculty member and approved by the department chairperson. Independent study is available to students who have completed one semester of Professional Nursing Courses.

**ANT 110 Physical Anthropology and Archaeology (3)**

Introduction to human evolution, variation and prehistory. The Darwinian Revolution, mechanisms of evolution, the fossil record, domestication of plants and animals, the origin of human civilization. Prehistory topics may include the Americas, Africa, the Middle East, Asia.

**3 Class Hours**

**ANT 111 Cultural Anthropology (3)**

Introduction to the study of culture as the behavioral adaptation unique to human societies. Cultural characteristics shared by all humans and major variations found among specific groups. Explanations for rules of social interaction in common activities, the social functions of institutions, language is a culturally defined system of communication, modernization in our own and third world societies.

**3 Class Hours**

**ANT 299 Independent Study (1-3)**

An individual student project in anthropology which is beyond the scope of requirements of the course offered by the department, conducted under the direction of a faculty member and approved by the department chairperson.

**Prerequisite:** 3 Semester Hours in Anthropology

**ART 102 History of Western Art I (3)**

An overview of Western Art from 25,000 BC to about 1550 AD. Study of man's made objects, paintings, sculpture, drawings, graphics, ceramics and some architecture to reveal the relationships between these objects and the history of civilizations. Slide lecture format.

**3 Class Hours**

**ART 103 History of Western Art II (3)**

Survey of the visual arts in Western culture from the late Renaissance until the 1990s to reveal how art mirrors life and reflects its ideals. Special emphasis on American painting and sculpture. Slide lecture format and field trips.

**3 Class Hours**

**ART 104 Oriental Art (3)**

This course is intended to be a general survey of Oriental Art in the Far East: the art and architecture of India, Japan and China with supplementary study of the cultural traditions of Tibet and Indonesia, Burma and Thailand. An introduction to both monuments and cultural traditions, especially Buddhism, the course is intended for the beginning student with a limited background in Art History.

**3 Class Hours**

**ART 105 Introduction to Two-Dimensional Design (3)**

Introduction to design involves the student with investigation of visual perception and organization. The student is expected to become more fully equipped to understand and work with design concepts through heightened physical and sensory awareness, experimentation with a variety of media and intellectual comprehension of text, lecture and visual examples. Line space, illusion, texture, color and form are explored.

**2 Class Hours, 2 Studio Hours.**

**ART 106 Introduction to Three-Dimensional Design (3)**

Developing sensitivity and awareness of our spatial environment is the object of this course. Aesthetic and functional elements of three-dimensional design are explored. Through reading, projects, lectures and field trips, techniques are explored to assist in heightening awareness. This enables the student to understand the functional and aesthetic examples of the three-dimensional environment. Emphasis is placed on studio projects.

**2 Class Hours, 2 Studio Hours**

**ART 108 History of Western Architecture I (3)**

Overview of 40 centuries of building, beginning in Ancient Egypt. The student follows the political, technological, religious and social movements that have influenced the major design styles, outstanding architects and designer of each era until the end of the Renaissance (1650s). Slide-lecture format with site visits.

**3 Class Hours**

**ART 109 History of Western Architecture II (3)**

Overview of the history of buildings from the Baroque period (1650s) to the present. Students achieve an historical perspective on and understanding of the development and evolution of architectural design. Special emphasis is given to local buildings and their relationships to national styles.

**3 Class Hours**

**ART 110 Modern Art (3)**

Art of the late 19th century. Impressionism (circa 1870) to Cubism and other forms of abstract art. Panorama of 20th century visual movements including Futurism, Surrealism, Abstract Expressionism, Pop Art, and Post-Modernism. Slide/lecture format and field trips.

**3 Class Hours**

**ART 112 Beginning Photography (3)**

Basics of camera design and operation, plus the fundamentals of photographic visualization and composition: line, form, color, light shadow. Darkroom procedures, film processing, basic printmaking, selecting printing techniques. (Students must have their own 35mm single lens reflex camera and should expect to pay for their own photographic materials — about \$60.)

**2 Class Hours, 2 Laboratory Hours**

**ART 115 Beginning Drawing (3)**

Intensive drawing instruction in charcoal, pencil, pen and ink, and mixed media. Still-life composition, use of formal art elements and some figure drawing.

**6 Studio Hours**

**ART 116 Painting I (3)**

Beginning painting instruction and practice of oil painting, still-life, landscapes.

**6 Studio Hours; Prerequisite:** ART 115 Drawing or portfolio review

**ART 140 Printmaking (3)**

This three-part course will begin with an introduction to printmaking through the methods of collograph and monotype printing. Then linocuts and woodcuts will be developed, and there will be a concentration on the silkscreen process. The third part will be an historical survey of printmaking and its techniques. This will be accomplished through visits to local print collections.

**6 Studio Hours; Prerequisite:** ART 115 or ART 105 or portfolio review

**ART 150 Graphic Rendering (3)**

Graphic techniques developed for visual presentation of architectural, industrial and aesthetic forms. Studio projects stress creation of the representational image using perspective, color, texture and light. Applicable to advertising and illustration of ideas and products.

**2 Lecture Hours, 2 Lab Hours; Prerequisite:** INT 105 Basic Drafting for Interior Design



**ART 212 Intermediate Photography (3)**

Systems of precise exposure and processing control. Advanced black and white darkroom techniques. Introduction to color theory, processes and printing. Functional portfolio development. Introduction to digital electronic imaging. (Students must have their own 35mm single lens reflex camera and should expect to pay for their own photographic materials — about \$60.)  
**2 Class Hours; 2 Laboratory Hours; Prerequisite:** COM 110 or by portfolio acceptance and permission of instructor.

**ART 215 Painting II (3)**

Continuation of painting instruction and practice done in ART 116 Painting I.  
**6 Studio Hours; Prerequisite:** ART 116 Painting I or portfolio review

**ART 217 Advanced Drawing (3)**

Advanced course presenting new media techniques and concepts; life drawing emphasized.  
**6 Studio Hours; Prerequisite:** ART 115 Drawing or portfolio review

**Independent Study: Art (1-3)**

**ART 296 Printmaking**

**ART 297 Three-Dimensional Design**

**ART 298 Studio Art**

**ART 299 Art History**

An individual student project concerned with advanced work in a specific area of art. Conducted under the direction of a faculty member, independent study is concerned with material beyond the scope and depth of the ordinary course.

**Prerequisite:** 3 semester hours of college level work in Art

**BIO 102 Preparatory Biology (0)**

A preparatory course for students with no previous biology or laboratory science experience and for students needing additional background. Especially for prospective health science students. Register with advisement only.

**3 Lecture Hours, 3 Laboratory Hours**

**BIO 111 General Biology I (4)**

Principles of evolution and ecology as unifying themes in biology. Evolutionary processes and ecological adaptations illustrated by plant and animal diversity. Cellular life processes. Current environmental problems. The laboratory includes physically demanding field trips. Accommodations can be made for students with disabilities.

**3 Class Hours, 3 Laboratory Hours**

**BIO 112 General Biology II (4)**

Principles of evolution and ecology as unifying themes in biology. The human animal and its systems. Concepts of animal behavior. Classical genetics, current concepts of gene function and human genetics. Organismal growth and development. Current environmental problems. The laboratory includes physically demanding field trips. Accommodations can be made for students with disabilities.

**3 Class Hours, 3 Laboratory Hours**

**BIO 120 Human Sexuality (3)**

Explores information about sexual attitudes, relationships, sexual anatomy, contraception, sexually transmitted disease, sexual physiology and dysfunction. Course aims to make students feel more comfortable thinking and talking about sex and to prepare them to make rational decisions about this important aspect of their lives.

**3 Class Hours**

**BIO 131 Human Biology I (4)**

Normal structure (gross and microscopic) and function of the skeletal, muscular and nervous systems. Emphasis on physiology in lectures and on anatomy in laboratory, stressing those aspects which have greatest relevance to the student's curriculum.

**3 Class Hours, 2 Laboratory Hours**

**BIO 132 Human Biology II (4)**

A continuation of BIO 131 Human Biology I covering the circulatory, respiratory, digestive, urinary, reproductive and endocrine systems. Emphasis on physiology in lectures and on anatomy in laboratory, stressing those aspects which have greatest relevance to the student's curriculum.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** BIO 131 Human Biology I or permission of chairperson.

**BIO 140 Pathophysiology (3)**

Symptoms, syndrome and etiology of pathogenic processes affecting the function and structure of the body.

**3 Class Hours; Prerequisite:** BIO 132 Human Biology or permission of chairperson

**BIO 150 Microbiology (4)**

The biology of the common bacteria and related microorganisms. General microbiology including asepsis, disinfection, sterilization, cultivation, pathogenicity, resistance, identification.

**3 Class Hours, 3 Laboratory Hours**

**BIO 151 Aquatic Biology (4)**

A study of how light, temperatures and water chemistry influence the plants and animals which live in ponds, lakes, rivers and estuaries. Current and future ecology. Local, regional and national weather-related problems including pollution, waste water treatment, ground water contamination, acid rain, water recycling, salt water encroachment, wetland destruction.

**3 Class Hours, 2 Laboratory Hours**

**BIO 160 Microbiology (3)**

Position of microorganisms in the biological world, as well as their cultivation and identification. Asepsis, disinfection and sterilization. Disease transmission and the human elements in defense. For Dental Hygiene Students.

**2 Class Hours, 3 Laboratory Hours**

**BIO 170-199 Special Topics in Biology (1-2)**

Special courses covering particular topics in the biological sciences beyond the scope of the normal course offerings.

**BIO 171 Physiology of Exercise (1)**

Designed to develop an understanding and appreciation for the role of consistent exercise in maintaining good health, the interrelationship of the muscular, cardiovascular, respiratory and digestive systems and the net effect of training on these systems.

**1 Class Hour**

**BIO 200 Ecology: The Everglades (4)**

A scientific yet sensitive look at one of the world's rare and endangered wilderness areas. Everglades ecology is studied through an extensive wilderness camping experience in Everglades National Park, involving a minimum of 90 hours of classroom and field instruction. Offered during the January Intermission.

**3 Class Hours, 3 Laboratory Hours; Prerequisite:** BIO 111 or equivalent

**BIO 202 Biology Seminar (1)**

The course is designed specifically for students interested in pursuing careers in the biological sciences. Students will be asked to critically analyze both current and historical readings, experiments and controversial topics within the field. An emphasis will be placed on showing the special niche of the biological sciences within the context of both the physical and social sciences. A weekend field trip is required.

**1 Class Hour; Prerequisites:** BIO 111 and 112 or equivalent; permission of instructor

**BIO 299 Independent Study (1-3)**

An individual student project in a biological field which is beyond the scope of requirements of the courses offered by the department. Conducted under the direction of a Biology faculty member. Only one independent study course allowed per semester.

**1 - 3 Class Hours; Prerequisites:** 3 semester hours of college level work in biology and approval of Department Chairperson

**BHM 110 Sanitation and Safety (2)**

A course in the fundamentals of restaurant and hotel organization and sanitation. In this certification course the student will learn the control points in food service, the importance of sanitation, and safety procedures.

**2 Class Hours**

**BHM 111 The Challenges of Food Safety (1)**

Covers the challenges of providing healthy food. More specifically, the biological hazards presented by disease-causing micro-organisms such as bacteria, viruses, parasites and fungi will be discussed. Included is discussion on news-making foodborne illnesses such as e-Coli, hepatitis A, salmonellosis and botulinum.

**1 Class Hour**

**BHM 112 Establishing a Foodservice Safety System (1)**

Covers the flow of food through various stages of preparation from purchasing to consumption. Cleaning and sanitizing, organizing a cleaning program, HACCP, integrated pest management, crisis management and dealing with government imposed sanitation regulations and standards will be discussed. Those individuals who have completed BHM 111 will, upon completion of this course, be eligible to sit for the Applied Foodservice Sanitation certification exam offered by the Educational Foundation of the National Restaurant Association.

**1 Class Hour**

**BHM 125W Hospitality Law (3)**

A study of the legal principles governing hospitality operations including: common law, contracts, laws of tort and negligence, hotel-guest relationship, laws regarding food, food service and alcoholic beverages and employment laws.

**3 Class Hours; Prerequisite:** BUS 118

**BHM 150 Hospitality Operations Seminar (3)**

This course covers a broad range of topics affecting the Hospitality industry. Included will be units on front office procedures, property management, conventions, sales, marketing, and destinations: tourism generators. Guest lectures and field trips will be an integral part of this course.

**4 Class Hours**

**BHM 165 Hotel and Restaurant Purchasing (3)**

This course will focus on the concept of selection and procurement, distribution systems and forces affecting the purchasing function. Some of the topics to be covered include: the organization and administration of purchasing, purchasing specifications, receiving procedures, typical storage management procedures, security, services, and purchasing of furniture, fixtures and equipment.

**3 Class Hours**

**BHM 201 Hotel/Restaurant Internship I (3)**

Career-related employment in the hospitality industry focusing on an area of interest in a hotel or restaurant. The intern will experience the opportunity to apply the theory learned in the program within a hospitality business setting. First year course work must be completed.

**3 Class Hours; Prerequisite:** BHM 150



**BHM 215 Culinary Arts Theory and Development (3)**

This course focuses on the theory and practice of cooking methods such as frying, roasting, broiling, griddle work, poaching and sauteing, with a basic understanding of use and care of kitchen equipment. Some items to be prepared by the student include: stocks, sauces, soups, vegetables, appetizers, sandwiches, salads, dairy products, meat, poultry, seafood, international dishes and basic bakery products.

1 Class Hour, 6 Lab Hours; Prerequisite: BHM 110

**BHM 235 Hotel and Restaurant Cost Control (4)**

This course presents practical techniques for protecting hospitality establishments profits. Covering a broad area of controls over food, beverage and labor areas, this course builds a sound foundation of concepts and applications of management cost control procedures.

4 Class Hours; Prerequisites: BUS 100, BUS 112

**BHM 270 Hospitality Managerial Accounting (3)**

This course provides students with a basis for planning and protecting a hospitality operation's financial success. Covers methods of financial analysis, forecasting, and budget and cost management.

3 Class Hours; Prerequisite: BHM 235

**BHM 297 Hotel/Restaurant Internship II (3)**

Career-related employment in the hospitality industry focusing on an area of interest in a hotel or restaurant. The intern will experience the opportunity to apply the theory learned in the program within a hospitality business setting. Senior status.

**BNK 120 Sales Management (1)**

Designed for new and prospective retail managers. Examines the responsibilities of the sales manager. Selling techniques, establishing market goals and increasing sales results.

1 Class Hour

**BNK 123 Product Knowledge: Key to Successful Selling (1)**

Gives an understanding of the range of financial services a bank can offer. Also explains the needs these products meet. The course integrates the concept of cross-selling with the product knowledge required to successfully cross-sell.

1 Class Hour

**BNK 124 Managing Sales in the Branch (1)**

Helps sharpen skills in sales management and apply practical sales techniques. Designed to enable students to motivate and equip sales staff to become an effective sales team.

1 Class Hour

**BNK 130 Written Communication for Bankers (1)**

An overview of the steps involved in creating successful written communications. Emphasis on letters and written reports.

**BNK 140 Statement Analysis (3)**

Basic concepts and skills of statement analysis. Examination of ratio analysis, trend analysis, fund and cash flow analysis. Pro forma statements, peak debt position, cash forecasting and working capital analysis are also covered.

3 Class Hours

**BNK 150 Customer Service for Bank Personnel (1)**

For customer contact personnel, this practically based course provides an opportunity to improve communication skills as they relate to banking needs. Included are elements of professionalism, handling difficult situations and interpersonal communication.

1 Class Hour

**BNK 160 Personal Banker (1/2)**

Designed for customer contact personnel. Examines customer needs at various stages of life and develops strategies designed to meet those needs.

1/2 Class Hour

**BNK 161 Financial Planning for Bankers (3)**

Designed for all levels of bank personnel, this course provides a general overview of the financial planning process and its applications. Application of financial planning concepts to personal financial decisions.

3 Class Hours

**BNK 162 Deposit Operations (2)**

Examines the U.S. payment system of today and tomorrow. Bank deposit-taking activities, management of deposited funds, trends in EFT.

2 Class Hours

**BNK 163 Essentials of Banking (1/2)**

Orientation to the essential principles, concepts and operations of banking. Economic and organizational aspects of banking, the asset/liability management process, bank products and service

1/2 Class Hour

**BNK 164 Personnel and the Law (1/2)**

An introduction to laws pertaining to banking's personnel policies & procedures. Civil Rights Act, Equal Pay Act, EEO, Vietnam Era veterans' legislation.

1/2 Class Hour

**BNK 165 Bank Security (1/2)**

Designed for experienced customer contact personnel. Examines bank security issues — bank card fraud, bomb threats, extortion, embezzlement.

1/2 Class Hour

**BNK 168 Principles of Banking (3)**

A core course that examines all aspects of banking. A comprehensive introduction to today's diversified bank services. Bank accounting, pricing, profitability, personnel and security functions.

3 Class Hours

**BNK 171 Bank Cards (3)**

A thorough overview and update of the bank card industry. History and development of the card, operational aspects, legal and regulatory issues, and implications for the future of the card are discussed in depth.

3 Class Hours

**BNK 172 Real Estate Finance for Bankers (3)**

An introductory course highlighting sources of mortgage credit. Analysis of mortgage credit and real estate investment. Appraisal of residential and income-producing property, construction loan administration and federal assistance in the mortgage market.

3 Class Hours

**BNK 173 Marketing for Bankers (3)**

A thorough examination of basic marketing principles and practices and their application to the banking industry. Designed for entry level through mid-management level employees.

3 Class Hours

**BNK 174 Money & Banking (3)**

Basic economic principles as they relate to banking. This course, designed for bank personnel in customer contact positions, management trainees and mid-management entry personnel, provides the foundation for further banking study.

3 Class Hours

**BNK 176 Law and Banking Principles (3)**

Sources and applications of banking law. Torts and crimes, contracts, real and personal property, bankruptcy, legal implications of consumer lending.

3 Class Hours

**BNK 179 Management Fundamentals/Banking (3)**

The art and science of management centered around the basic management function of planning, organizing, lending and controlling. A student-oriented format utilizing case studies and discussion.

3 Class Hours

**BNK 180 Economics for Bankers (3)**

This course introduces you to the fundamentals of economics. Special emphasis is placed on macro-economics and topics important to bankers. The course covers the basics of economic theory and includes examples of the application of economics to banking.

**BNK 181 Investment Basics and Beyond (3)**

Introductory course for trust department and retail bank personnel. The securities market, investment alternatives and trust department investment operations are examined in detail. Also covered are investment techniques, portfolio management and practical applications.

3 Class Hours

**BNK 182 Consumer Lending (3)**

Designed for entry level and consumer credit personnel. An overview of consumer credit. Evaluating credit risks, consumer credit policy, servicing and collecting loans, consumer compliance, documentation, portfolio management and marketing.

3 Class Hours

**BNK 183 Supervision (3)**

Helps new or potential supervisors become better managers. Emphasis is placed on the broad perspective of supervision. Combines new insights with the interpersonal skills required of today's supervisors.

3 Class Hours

**BNK 185 Corporate Banking (3)**

A pragmatic approach to understanding the lending environment within a bank. The course provides the less experienced commercial lender with a firm grasp of the sequential nature of the lending process. Emphasis is on a practical technical approach.

3 Class Hours

**BNK 186 Preparing for Supervision (1)**

For the bank employee considering the move to a supervisory role, knowledge and practice in areas such as leadership, motivation, productivity and communication.

1 Class Hour

**BNK 188 Knowing the Market (1)**

For new and prospective retail managers, a look at changing bank culture in an era of high technology. Identifying bank and non-bank competition, market segmentation and target market.

1 Class Hour

**BNK 190 Problem Loans (3)**

Problem loan prevention is stressed by examining common mistakes which cause problem loans. Effectively dealing with problem loans and minimizing losses examined through the use of case studies.

3 Class Hours

**BNK 191 Selling Skills for Bankers (1)**

An examination of the skills necessary for customer contact personnel to sell bank services and meet customer needs. Development of specific selling techniques and positive attitude.

1 Class Hour



**BNK 192 Bank Management (3)**

For all levels of bank management this course presents a discussion of bank financial statements, an overview of asset liability management and a thorough discussion of deposit functions, lending short-term funds management and capital management.

**3 Class Hours**

**BNK 198 Law and Banking: Applications (3)**

An introduction to laws pertaining to secured transactions, letters of credit and the bank collection process. Check losses, collateral, perfection and default.

**3 Class Hours**

**BNK 199 Analyzing Financial Statements (3)**

For the bank lender/credit analyst. How financial data is generated and its limitations. Flow of business funds, selecting and interpreting financial ratios.

**3 Class Hours; Prerequisite:** BUS 100 Accounting I and BUS 101 Accounting II

**BUS 090 Language of Business (0)**

An introduction to business terminology. Students will learn terms and phraseology used in the day to day operations of business. Areas of concentration will include but not be limited to: Accounting, Marketing, Management, Law, Business Organization, and Economic Systems. Becoming familiar with the language of business will better prepare students for required business courses. This course is especially designed to meet the needs of international students.

**3 Class Hours**

**BUS 100 Accounting I (4)**

Introduction to accounting principles and procedures necessary to complete the accounting cycle. Using software modules with Lotus 1-2-3 and/or general ledger software package on a personal computer. Emphasis on journals, ledgers and financial statements. Accounting for merchandising transactions, valuation of inventories and payroll.

**4 Class Hours**

**BUS 101 Accounting II (4)**

Expansion of the fundamental concepts and procedures of accounting. Using software modules with Lotus 1-2-3 and/or general ledger software package on a personal computer. Emphasis on internal control, voucher systems and cash transactions, receivables and payables. The acquisition, depreciation and disposal of plant assets. Accounting methods and procedures relating to partnerships and the corporate form of business organizations. Manufacturing with emphasis on the special problems and additional accounting procedures to measure, control and report factory production costs.

**4 Class Hours; Prerequisite:** BUS 100 Accounting I

**BUS 102 Payroll Accounting (2)**

A comprehensive study of federal and state laws and regulations affecting payrolls and payroll taxes, practical report preparation and reporting. Requirements including use of a computerized payroll system and proper accounting practices to record payroll and payroll taxes.

**2 Class Hours; Prerequisite:** BUS 100 or equivalent

**BUS 107 The Freshman Experience (1)**

An introduction to college life for the beginning student in the Business Department. College and Departmental policies and procedures, academic advisement and registration, study skills, learning styles, transfer and employment opportunities, college resources (including the library,) and topics in health and fitness.

**1 Class Hour**

**BUS 108 Accounting for a Service Business (2)**

Introduction to basic accounting procedures. Topics to include journals and ledgers, cash and credit transac-

tions, internal control over cash and the voucher system. Emphasis on how the cash basis system works for a service based business. (May not be taken for degree credit by Business Division students. See BUS 100.)

**2 Class Hours**

**BUS 110 Introduction to Business (3)**

General background of modern business practices through the study of organization and management, production, human resources, accounting and finance, marketing, and the information needed for control and management decisions in business and society.

**3 Class Hours**

**BUS 112 Quantitative Business Methods (3)**

Quantitative analysis of contemporary business problems. Emphasis on percentages, ratios, markup/markdown, cash discounts, trade discounts. Simple interest, compound interest, consumer credit, and insurance. Present value, future value, annuities. Basic statistics and graphical analysis.

**3 Class Hours; Prerequisite:** MAT 090 Arithmetic and the Language of Algebra or passing grade on Math Placement Test

**BUS 115 Business Statistics (3)**

Concepts and mechanics of measures of central tendency, measures of dispersion, probability, sampling theory, estimation, hypothesis testing and correlation as they relate to general problems in business and economics.

**3 Class Hours; Prerequisite:** MAT 092 Introduction to the Concepts of Algebra or equivalent (course one high school math)

**BUS 116 Business In a Global Environment (3)**

An overview of the social, cultural, political, and economic factors that influence the trade related interaction of nations and the operations of global business enterprises. Trade theory, economic integration, global sourcing, export-import basics, cultural awareness, and other current topics relating to international business will be covered.

**\*BUS 117 Business and Society (3)**

The role of business in the contemporary world. Increasingly difficult parameter for business despite the growing demands of accountability from government and of social responsibility from consumers. Business values and ethics, the role of business and government, environmental issues and energy policy, business and labor, business and consumer, the influence of multinational corporations.

**3 Class Hours**

**BUS 118 Business Law I (3)**

Law as an evolutionary and democratic process. Topics include torts and criminal law, court structure, ethical issues in business, administrative law, law-of-contracts, legal principles of agency, employment rights and an introduction to business organizations including partnerships.

**3 Class Hours**

**BUS 120 Business Law II (3)**

The law governing the negotiation or transfer of commercial paper, law of sales, law of personal and real property, bailments, insurance, landlord-tenant relationships and an introduction to corporate law. This course is included in the campus general education requirements as a writing emphasis course.

**3 Class Hours; Prerequisite:** BUS 118 Business Law I

**BUS 121 Business Law III: Special Topics; Environmental, and International Law (3)**

Topics of study in this course include: close corporations and limited partnerships; securities regulation, accountants' legal liability; estates and trusts; credit transactions, including secured transactions, administrative agencies, antitrust law, consumer protection,

bankruptcy, environmental regulation and international law.

**3 Class Hours; Prerequisite:** Bus Law I & II; or consent of instructor

**BUS 127 Business History (3)**

A study of business history will familiarize students with the American business system and the economic setting from which this unique model of capitalism evolved. The history of the firm and its patterns of development will incorporate types of entrepreneurship, the kinds of capital involvement, and the various social, ethical and legal ramifications of change over two hundred years. Rather than presenting a digest of historical facts the course is designed to reveal the evolutionary nature of change in business, from the early stages of merchant capital to the current period of information capital.

**3 Class Hours**

**BUS 129 Consumer Behavior (3)**

Emphasizes the development of how people make purchase decisions in the marketplace. Consumer decision making, learning, brand loyalty and market segmentation.

**3 Class Hours**

**BUS 130 Retail Management (3)**

Techniques involved in planning, organization, control and operation of diverse retail establishments. Trading area analysis, warehousing, inventory control, customer relations. Case studies, field trips.

**3 Class Hours; Prerequisite:** BUS 264 Retailing

**BUS 131 Personal Finance (3)**

Guidelines for financial planning regarding long-term and short-term installments buying, i.e., homes, autos, etc., credit, insurances, taxes, savings, budgeting, and investments in real estate, stocks, bonds, IRA's, mutual funds, money market accounts, etc.

**3 Class Hours**

**BUS 135 Investments (3)**

Evaluation of retirement/pension choice (IRA, SEP/IRA, Keogh, 403b, 401k, etc.). Selection, analysis and valuation of Limited Partnerships, Investment Companies (Closed-End vs. Open End Mutual Funds), REIT's, Unit Investment Trusts, Fixed Income Securities, Government Securities, Common Stock, Options, Annuities and various insurance company hybrids. Non-financial assets, i.e., collectibles and precious metals as tools of investing

**BUS 141 Marketing (3)**

Introductory study of Marketing as an art and a science. Analysis of the basic principles and practices necessary to complete the marketing cycle effectively. Marketing of goods and services, from conception of the original product idea to delivery to the ultimate consumer. Marketing mix, marketing concept, environmental and societal constraints. Lecture, discussion, cases.

**3 Class Hours**

**BUS 145 Seminar in Total Quality Management (3)**

Total Quality, as a management model and philosophy will introduce the student to a framework for thinking about the customer, the product, the market and the organization. While emphasis will be on the service sector — this course stresses that the customer is an asset of the business and there is a need to understand, respect, and satisfy him/her at every level of an organization regardless of specific industry. Included are such topics as why quality is so important now, the standards of quality, how principles and values drive a company, the customer's impact on business and their impact on teamwork, continuous improvement, measurement, and leadership.

This course will define quality philosophies and show real-world examples of successes as well as failures and suggest ways to implement a Total Quality program, etc.

**3 Class Hours**

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



**BUS 152 Selling Fundamentals (3)**

Principles of sales with practical application. Steps leading to a successful sale — prospecting, planning and delivering, dramatizing, handling objections, closing, building good will. Development and presentation of a complete procedure for a product or service. Closed-circuit television used to critique sales presentations.

3 Class Hours

**\*BUS 154 Purchasing (3)**

An overview of the procurement and materials management activities that occur in an industrial environment. Discussion topics include supplier selection, pricing, negotiation, contracts, inventory, management and quality. Case studies are used to emphasize purchasing's role in the organization.

3 Class Hours

**\*BUS 159 Management Institute I (1)**

From the "hands on" point of view, an overview of what it takes to be a manager. Self-evaluation, management functions, data management, legal regulations and unions, organizational overview, the people factor in management and role playing. A team-teaching approach is used when possible.

1 Class Hour

**BUS 161 Real Estate Appraisal (3)**

Designed to acquaint participants with the appraisal process of real property. Market approach, income approach and cost approach to value. Activities designed to build appraisal skills through case study, prepare appraisal reports and analyses.

3 Class Hours

**\*BUS 163 Real Estate for Salespersons (4)**

Designed to meet New York state requirements for licensure as a real estate salesperson. Land use regulation, law of contracts, real estate instruments, real estate mathematics, real estate finance, closing and closing costs, brokerage and the law of agency, valuation and listing procedures, license law and ethics, human rights and fair housing.

4 Class Hours

**\*BUS 164 Real Estate for Brokers (4)**

Designed to meet New York state requirements for licensure as a real estate broker. Land use regulation, operation of a real estate broker's office, general business law construction, subdivision and development, leases and agreements, liens and easements, taxes and assessments, investment property, property management, condominiums and cooperatives, appraisal, advertising, rent regulations.

4 Class Hours; Prerequisite: BUS 163 Real Estate for Salespersons

**\*BUS 170 Insurance for Agents and Brokers (7)**

Comprehensive survey of insurance. Fire, marine, automobile, owner liability, burglary, boiler, machinery, accident and health, fidelity and surety insurance, insurance law and duties of the agent. Designed to meet requirements for the N.Y.S. property and casualty insurance license.

7 Class Hours

**BUS 172 NYS Life/Health Insurance Licensing (2)**

Prepares students to complete New York State licensing exams in life, accident, and health insurance. Life Insurance Principles, Uses, Insurance Contracts, Group Insurance, Annuities, Social Security Programming, Laws on Insurance, Accident & Health Necessity, Accident & Health Insurance Terminology, Accident & Health Risk Selection, Types of Accident & Health Policies, Statutory Plans, Types of Accident & Health Carriers, Types of Accident & Health Coverage, Statutory Policy Provision, Agency Duties & Responsibilities.

2 Class Hours

**\*BUS 176 Real Estate Finance (3)**

Analysis of theories, practices and policies of real estate financing. Mortgage theory and lending practices in addition to alternative means of financing real property in the contemporary market. Case practices to build analytical skills in selecting different financing approaches.

3 Class Hours

**\*BUS 188 Income Tax I (2)**

Fundamental federal and New York state income tax rules and regulations for filing personal income tax forms. Gross income inclusions and exclusions, adjustments to income, tax credits, estimated taxes, itemized deductions, penalties and avoidance, amended tax returns.

2 Class Hours

**\*BUS 189 Income Tax II (2)**

Preparation of supplementary tax form, such as capital gains, rentals, income averaging, sole proprietorship, self-employment taxes, investment credit, corporation tax returns, sub-chapter S corporations, gift and inheritance taxes.

2 Class Hours

**BUS 200 Intermediate Accounting I (4)**

An intensive study of accounting theory and procedures. Emphasis on balance sheet accounts and their interrelationships with income statement accounts. The accounting process and correction of errors. Advanced treatment of cash, receivables, inventories.

4 Class Hours; Prerequisite: BUS 101 Accounting II

**BUS 201 Intermediate Accounting II (4)**

A more advanced treatment of accounting for fixed assets, intangible assets, current and long-term liabilities. Corporation accounting, funds flow reporting, financial statement analysis.

4 Class Hours; Prerequisite: BUS 200 Intermediate Accounting I

**BUS 205 Cost Accounting I (4)**

Nature and purpose of cost accounting. Job order and process costing. Accounting for factory overhead and analysis of variances. Accounting for labor and material.

4 Class Hours; Prerequisite: BUS 101 Accounting II

**BUS 206 Cost Accounting II (4)**

Further consideration of cost accounting principles, standard costs and variances. The construction of budgets, profit planning. Flexible budgets. Direct costing. Break-even analysis. Accounting for by-products and joint products. Non-manufacturing costs.

4 Class Hours; Prerequisite: BUS 205 Cost Accounting I

**BUS 209 Operations Management (3)**

A study of the overall production-related activities of a manufacturing firm. Topics include: project planning, capacity planning, scheduling, inventory management, MRP, JIT, CIM and TQM.

3 Class Hours

**BUS 210 Managerial Accounting (4)**

Accounting for managerial analysis and decision making, providing an analysis of accounting data useful in the planning and control functions of a firm. Study of cost concepts, break-even, differential accounting and responsibility accounting.

4 Class Hours; Prerequisite: BUS 100 Accounting I

**BUS 224 Business Finance (3)**

Financial principles and procedures of capital management. Analysis of the relationship of finance to micro and macro economics factors such as inflation business cycle, competition, regulation. Emphasis on corporate goals and objectives as a determining factor in the

choice of financial management policy. Application of financial ratios, cash budgeting, forecasting, leverage, working capital policy, capital markets, stocks and bonds, valuation and other basic areas of finance. Problem solving using computer applications is required.

3 Class Hours; Prerequisite: BUS 101 Accounting II, MAT 092 or equivalent (equivalent is Course I High School Math), CST 107 or equivalent

**BUS 229 Advertising (4)**

Development, economics, functions of advertising. Cost application, media, testing and research methods. Development of advertisements, copy and layout, methods and problems of reproduction. Planning the advertising campaigns with step-by-step developments. Lectures, discussions, demonstrations. Students are required to use the computer to generate graphics. BUS 141 Marketing is recommended as preparation for this course.

4 Class Hours

**BUS 238 Marketing Research (3)**

Methods of collecting and interpreting marketing information which affects marketing management. Specific applications to problem identification in market development, gauging market potential and implementation of research designs in the marketplace.

3 Class Hours

**BUS 242 Marketing Seminar (3)**

Senior capstone course which integrates various business subjects previously studied. Individual and team approach are utilized to analyze comprehensive marketing and management cases. A marketing-simulation computer game (competition-based) is employed to give students a more realistic feel for the decision-making process.

3 Class Hours; Prerequisite: BUS 141 Marketing, Non-marketing majors must have instructor's permission

**BUS 245 Management: A Behavioral Approach (3)**

A comprehensive analysis of managerial theories as they relate to a changing social and economic environment. An integration of social sciences will be used to investigate functions. Different cultural management styles will also be analyzed.

3 Class Hours

**BUS 246 Principles of Management (3)**

Principles of managerial practices. Planning, organizing, directing and controlling. Exposes students to proper methods and techniques to achieve employee and job satisfaction. Topics covered include scientific management, behavioral theory and introduction to management science.

**BUS 248 Human Resource Management (3)**

Human Resource Management is the acquisition, development, maintenance, and utilization of a workforce within an organization. Topics examined include employee recruitment and selection, training, management development, and salary/benefits administration. The importance and impact of the Federal and State Regulatory environment is heavily stressed. The Equal Employment Opportunity Commission, Americans with Disabilities Act, Age Discrimination, Sexual Harassment, and other timely regulatory concerns are examined in detail. A case study approach is used to familiarize the student with Federal Case Law and Regulatory language.

3 Class Hours

**\*BUS 252 Supervision of Personnel (2)**

Concepts and psychology of personnel supervision, including legal and social aspects of First Line Management as related to the overall management team. Training techniques, discipline problems and appraisal analysis.

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



sis are studied to better understand the issues facing a First Line Manager. Classroom case studies will supplement the class discussion. Emphasis is placed on the supervisor as the first level of management, with common bonds to, yet tangible differences from the remainder of the management team.  
2 Class Hours

**\*BUS 254 Management Institute II (3)**

From the "hands on" point of view, an in-depth study of what it takes to be a manager. Coaching, counseling, performance, appraisal, interviewing, conflict resolution, risk, communications, data management and dealing with stress. A team-teaching approach is used when possible.  
3 Class Hours

**\*BUS 255 Industrial Labor Relations (2)**

Processes of bargaining and contract administration between industrial employers and union representing employees, as a system of compromising opposing objectives and settling differences. Origins of unions, how they organize and gain recognition and how the labor agreement is negotiated and administered. Interaction among employees, stewards and supervisors. Labor laws. Institutions such as the National Labor Relations Board, mediation, services, arbitration boards and courts.  
2 Class Hours

**\*BUS 258 Human Relations in Business (2)**

Basic psychological principles applied to the problems of employee selection, training, evaluation, merit rating and advancement. Social interaction and human relations in industries including discussion of internal attitudes, self-awareness, role identification, role modeling, and analysis of employee values. Emphasis is placed upon communication, as it affects the human relations process, conflict resolution, team building analysis, and organizational stress. All topics are viewed with respect to job satisfaction, morale, and employee-management interaction.  
2 Class Hours

**BUS 259 Business Report Writing (3)**

Training in logical analysis of business case problems, applied to the preparation of accurate written reports. Methods and skills in formal and informal business writing. Preparation of tables, charts, reference citations and bibliographies. Improvement of basic business writing skill involved in interoffice memos, letters of adjustment, bids, quotations, public relations.  
3 Class Hours

**BUS 262 Small Business Management (3)**

An overview designed for those interested in small business as owner-managers. Development of modern management techniques covering forms of organization, site acquisition and location, insurance, marketing, financing, pricing, break-even, permits, license and franchising.  
3 Class Hours

**BUS 263 Small Business Seminar (4)**

An intensive study of the various facets involved in organizing and operating a small business venture. Researching and evaluating business opportunities, establishing a buying/selling price for the business, small business taxation, analyzing and solving business problems, using information to manage marketing ideas. Heavy emphasis on development of the business plan and preparation of the loan proposal.  
4 Class Hours; Prerequisite: BUS 101 Accounting II

**BUS 265 Retail Merchandising (3)**

Principles of effective display: interior, window, point-of-purchase. Analysis of consumer buying habits, market evaluation, trend forecasting. Evaluation of variables of decor, lighting, impulse arrangements. Tech-

niques of advertising and sales promotion. Case studies, field trips.

3 Class Hours; Prerequisite: BUS 264 Retailing

**BUS 266 Advertising and Promotion for Small Business (4)**

A comprehensive study emphasizing "hands on" approach to small business advertising and promotion. Functions of advertising and promotion, budgeting, media selection, cost consideration, development of copy and layout. Students will use various media, including television, in the preparation of an advertising campaign. Current information on public relations and merchandising. Store layout and design, sales promotion, dealer programs and co-op advertising.  
4 Class Hours

**BUS 267 Retailing in a Service Economy (3)**

The history and overview of Retailing and the growth of the Service Sector economy. Covers the changes occurring in the distribution of goods and services including the growth of franchises, direct marketing and service businesses. The changes in retail structures, i.e., the demise of urban centers and traditional department stores and the growth of shopping centers, malls, and specialty retailers, are central to this course.  
3 Class Hours

**BUS 269 Business Reports and Computer Communications (3)**

Methods and skills for formal and informal business writing through the logical analysis of business case problems. Emphasis on utilizing the computer in the preparation, transmittal, and retrieval of business information and reports. Proper construction of business charts, graphs, tables, and graphics, using various computer software. Students learn to properly construct business letters, memos, bids, quotes, and other business reports and documents. Transmitting business reports using E-mail. Accessing and transmitting business information using the computer.  
3 Class Hours

**BUS 270 Management Science (3)**

An introduction to managerial problems relating to the planning and controlling functions, which provide guidelines to making rational decisions. A realistic approach utilizing cases and simulation is taken to expose the student to quantitative as well as subjective analysis to point out the constraints placed upon management. Managerial problem solving using the computer is required.  
3 Class Hours; Prerequisite: BUS 115 Business Statistics or MAT 124 Statistics I

**BUS 275 Accounting Information Systems (4)**

Computer based accounting systems with emphasis on development and implementation. Topics will include; creation of a general ledger, establishment of accounts receivable and billing procedures, management of cash and current liabilities, and payroll accounting. Also to be addressed is the development of a variety of custom management reports. The course will be divided into two parts, during part one, students will learn the tools necessary to implement an accounting system. During part two, students will work in teams which will develop a system for a local company or in some instances a mock business set up by the instructor. Instructor approval required for admission.  
Prerequisite: BUS 200 Intermediate Accounting I, CST 107 Bus. Appl. Microcomputer

**BUS 295 Accounting Seminar (4)**

In-depth treatment of accounting for payroll taxes followed by actual completion of required state and federal tax forms. Thorough coverage of the Individual Tax Form 1040, schedules A, B, C, D, E and G, small business taxes schedule SE and investment credit. Corporate tax form 1120. Accounting concepts and current trends in accounting as reflected through financial statement analysis.  
4 Class Hours

**BUS 297 Cooperative Work Experience (1-3)**

Cooperative education is available to students in the marketing management, marketing sales and accounting curricula. On-the-job experience may be obtained in such areas as retailing, banking, fast foods, government services and hotel management, as well as CPA firms, public accounting offices, industrial, business and government offices where accounting is performed. Cooperative work students will meet with the coordinator one hour each week.  
Prerequisite: Full-time student (minimum of 12 credit hours) maintaining an overall grade-point average of 2.5, with 3.00 in Business courses and no F's

**BUS 299 Independent Study (1-4)**

The student, under the guidance of a faculty member, undertakes an investigation, study and research in an advanced concept or problem concerning his/her major field of study. Only one independent study course is allowed per semester.  
Prerequisite: Approval of faculty member and department chairperson

**CHM 090 Preparatory Chemistry (0)**

Introductory course in chemistry emphasizing problem-solving techniques related to chemical concepts. Atomic structure, stoichiometry, metric units, chemical bonding, chemical nomenclature, solution chemistry.  
4 Class Hours; Prerequisite: MAT 099 Elementary Algebra

**CHM 120 Fundamental Chemistry (4)**

First course for Fire Protection Technology, Health Sciences and Criminal Justice students. Composition of substances, atomic structure, periodicity, bonding, chemical equations, state of matter, aqueous solutions, chemical equilibria and introduction to organic chemistry.  
3 Class Hours, 3 Laboratory Hours; Prerequisite: MAT 090 Arithmetic and the Language of Algebra

**CHM 121 Forensic Sciences (4)**

Introduction to forensic science for Criminal Justice students. The science behind the examination of fire-arms, cartridges, explosives, drugs and other types of physical evidence by the crime lab is presented. Emphasis on proper handling of substances found in crime scene investigations. Laboratory techniques include many modern instrumental methods, such as gas chromatography, infrared and mass spectroscopy as used in today's modern crime labs.  
3 Class Hours, 3 Laboratory Hours

**\*CHM 125 Chemistry (3)**

Fundamental concepts of inorganic chemistry. Composition of substances, kinetic and molecular theories, atomic structure and bonding, solutions and colloids, ions in solution and introduction to organic chemistry. For Fire Protection Technology students.  
2 Class Hours, 3 Laboratory Hours

**CHM 133 Survey of Organic Chemistry (3)**

Fundamental treatment of organic chemistry, nomenclature, properties of selected functional groups, mechanisms, stereochemistry and synthetic methods. Special emphasis on biomolecules such as lipids, carbohydrates, nucleic acids, vitamins and medicinally active compounds.  
3 Class Hours; Prerequisite: CHM 145 Chemistry I and CHM 145 Chemistry Laboratory I; Corequisite: CHM 146 Chemistry II and CHM 146 Chemistry Laboratory II and CHM 133L Survey of Organic Chemistry Laboratory

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



### **CHM 133L Survey of Organic Chemistry Laboratory (1)**

Emphasis on techniques on separation, identification and purification by classical and instrumental methods such as gas chromatography and spectroscopy, and selected experiments with biomolecules.

**4 Laboratory Hours; Prerequisite:** CHM 145 Chemistry Laboratory; **Corequisite:** CHM 133 Survey of Organic Chemistry

### **CHM 141 General Organic and Biochemistry I (3)**

Introductory treatment of general chemistry for the non-science student emphasizing applications of chemistry in everyday life. Measurements, atoms and bonding, the states of matter, nuclear processes, oxidation and reduction solutions, acids and bases. Applications include energy sources, effects of radiation, the environment, life processes, testing of advertising claims. For Liberal Arts non-science students.

**3 Class Hours; Prerequisite:** MAT 090 Arithmetic and the Language of Algebra; **Prerequisite or Corequisite:** CHM 141L General Chemistry Laboratory I

### **CHM 141L General Organic and Biochemistry Laboratory I (1)**

Experiments to introduce chemical laboratory techniques while increasing awareness of the chemical world and to attain some insight into how a chemist attacks a problem. Qualitative and quantitative measurements.

**3 Laboratory Hours; Corequisite:** CHM 141 General Organic and Biochemistry I

### **CHM 142 General, Organic and Biochemistry II (3)**

Continuation of CHM 141 General Chemistry. Basic concepts of organic and biochemistry. Petroleum, halogenated hydrocarbons, plastics, drugs, consumer products, living systems, food and metabolism. For Liberal Arts non-science students.

**3 Class Hours; Prerequisite:** CHM 141 General Organic and Biochemistry I; or **Prerequisite:** CHM 142L General Chemistry Laboratory II

### **CHM 142L General Organic and Biochemistry Laboratory II (1)**

A continuation of CHM 141L General Chemistry Laboratory emphasizing organic and biochemical experiments which substantiate classroom lectures.

**3 Laboratory Hours; Corequisite:** CHM 142 General Organic and Biochemistry II

### **CHM 145 Chemistry (3)**

Comprehensive treatment of general chemistry for the science-oriented student. Builds on their prior chemistry, with emphasis on the basic laws and theories of chemistry and their derivation from experimental evidence. Presents the qualitative and quantitative aspects of matter's composition and changes and their unifying principles. Includes physical and chemical properties, periodicity of elements, stoichiometry, current atomic and bonding theories, laws and theories of physical states and changes of state, solution chemistry, and thermochemistry.

**3 Class Hours; Prerequisite:** Regents Chemistry (75 minimum final grade) or CHM 090 Preparatory Chemistry and Regents Level III Math or MAT 139; **Corequisite:** CHM 145L Chemistry Laboratory

### **CHM 145L Chemistry Laboratory (1)**

Laboratory experiments to emphasize the empirical basis for the principles discussed in lecture and the proper gathering and interpretation of experimental data.

**3 Laboratory Hours; Corequisite:** CHM 145 Chemistry

### **CHM 146 Chemistry (3)**

Continuation of CHM 145 Chemistry including thermodynamics, kinetics, equilibrium, equilibrium in aqueous solution, acids and bases, coordination chemistry

and electrochemistry.

**3 Class Hours; Prerequisite:** CHM 145 Chemistry, CHM 145L Chemistry Laboratory; **Corequisite:** CHM 146 Chemistry Laboratory

### **CHM 146L Chemistry Laboratory (1)**

Continuation of CHM 145 Laboratory with experiments designed to illustrate thermodynamics, kinetics, equilibrium, qualitative analysis, and electrochemistry.

**3 Laboratory Hours; Corequisite:** CHM 146 Chemistry

### **CHM 161 Chemistry (3)**

Basic concepts underlying chemical action emphasizing measurement, basic chemical calculations, atomic structure and periodic law. Chemical bonding, states of matter, solutions, kinetic/molecular theories, chemical equilibrium and energy changes in chemical reactions.

**3 Class Hours; Prerequisite:** Regents Chemistry or CHM 090 Preparatory Chemistry; **Corequisite:** CHM 161L Chemistry Laboratory

### **CHM 161L Chemistry Laboratory (1)**

Experiments illustrating concepts from lecture. Emphasis on keeping a laboratory notebook and on laboratory skills required for the chemical laboratory. Exercises mostly quantitative in nature.

**3 Laboratory Hours, 1 Recitation Hour; Corequisite:** CHM 161 Chemistry

### **CHM 162 Chemistry (3)**

A continuation of CHM 161 Chemistry. Oxidation-reduction and electrochemistry, acids, bases and salts. Solubility product principle, acid/base equilibrium, thermodynamics. Principles of qualitative analysis.

**3 Class Hours; Prerequisite:** CHM 161 Chemistry and CHM 161L Chemistry Laboratory; **Corequisite:** CHM 162L Chemistry

### **CHM 162L Chemistry Laboratory (1)**

Experiments illustrating concepts from lecture, including seven weeks of semimicro qualitative analysis. Emphasis on laboratory skills and notebook keeping

**3 Laboratory Hours, 1 Recitation Hour; Prerequisite:** CHM 161 Chemistry and CHM 161L Chemistry Laboratory; **Corequisite:** CHM 162 Chemistry

### **CHM 220 Introduction to Instrumental Analysis (2)**

An introduction to the theory and laboratory instruction in electrochemical, nuclear, optical and chromatographic methods of analytical chemistry. Laboratory techniques include potentiometry, conductimetry, coulometry, polarography, liquid scintillation counting, gamma spectrometry, ultraviolet-visible, infrared, atomic absorption spectrophotometry, gas, ion, high performance liquid chromatography, and gas chromatography, mass spectrometry. For Medical Laboratory Technology students.

**1 Class Hour, 3 Laboratory Hours; Prerequisite:** CHM 146 Chemistry

### **CHM 245 Organic Chemistry (3)**

A fundamental treatment of organic chemistry. Organic nomenclature, chemical properties of selected functional groups, mechanisms, stereochemistry and synthetic methods. For Liberal Arts science majors and Engineering Science students with departmental approval.

**3 Class Hours; Prerequisite:** CHM 146 Chemistry; **Corequisite:** CHM 245L Organic Chemistry Laboratory

### **CHM 245L Organic Chemistry Laboratory (2)**

Basic techniques of separation and purification such as recrystallization, distillation, extraction, chromatography, modern instrumental techniques. Introduction to modern organic synthesis with emphasis on microscale techniques and methods of separation and purification.

**4 Laboratory Hours; Corequisite:** CHM 245 Organic Chemistry

### **CHM 246 Organic Chemistry (3)**

A continuation of CHM 245 Organic Chemistry including spectroscopy and introduction to molecules of biological importance.

**3 Class Hours; Prerequisite:** CHM 245 Organic Chemistry; **Corequisite:** CHM 246L Organic Chemistry

### **CHM 246L Organic Chemistry Laboratory (2)**

A continuation of CHM 245L Organic Chemistry Laboratory including an introduction to complex multistep synthesis and qualitative organic analysis by classical and modern instrumental techniques with emphasis on microscale techniques.

**4 Laboratory Hours; Prerequisites:** CHM 245 Organic Chemistry and CHM 245L Organic Chemistry Laboratory; **Corequisite:** CHM 246 Organic Chemistry

### **CHM 251 Chemical Engineering Technology Seminar (1/2)**

Topics in the field of Chemical Engineering Technology will be presented by guest lecturers from industry and academics. For Chemical Engineering Technology students.

**1 Class Hour**

### **CHM 261 Organic Chemistry (3)**

A systematic study of the families of organic chemistry, including concepts of bonding, equilibria, reaction, kinetics, energy profiles, isomerism and synthesis. Families viewed with emphasis on nomenclature, structural features, preparations, reaction products and uses.

**3 Class Hours; Prerequisite:** CHM 162 Chemistry; **Corequisite:** CHM 261L Organic Chemistry Laboratory

### **CHM 261L Organic Chemistry Laboratory (2)**

Experiments include separation techniques using instrumentation (infrared spectroscopy, gas chromatography) and synthesis.

**6 Laboratory Hours; Corequisite:** CHM 261 Organic Chemistry

### **CHM 262 Organic Chemistry (3)**

Continuation of CHM 261 Organic Chemistry. Mass spectroscopy and nuclear magnetic resonance. Special topics including heterocyclic compounds, polymers, biomolecules.

**3 Class Hours; Prerequisite:** CHM 261 Organic Chemistry; **Corequisite:** CHM 262L Organic Chemistry Laboratory

### **CHM 262L Organic Chemistry Laboratory (2)**

Emphasis on qualitative organic chemistry. Identification of unknowns.

**6 Laboratory Hours; Prerequisite:** CHM 251L Organic Chemistry Laboratory; **Corequisite:** CHM 262 Organic Chemistry

### **CHM 265 Instrumental Methods of Chemical Analysis (3)**

Principles and techniques of modern quantitative analysis including treatment of analytical data, sampling, solution adjustment, chelatometry, redoximetry, aqueous and non-aqueous acid-base titrations, electrophoresis and isoelectric focusing, ion-exchange, ion chromatography, conductimetry, coulometry, electrogravimetry, polarography, amperometry, potentiometry, radioisotope methodology. For Chemical Engineering Technology and Liberal Arts "chemical model" students.

**3 Class Hours; Prerequisites:** 1 full year of college general chemistry, MAT 162 Applied Calculus, PHY 162 Physics II and CST 140 Computer for Chemists or equivalent; **Corequisite:** CHM 265L Instrumental Methods of Chemical Analysis Laboratory

### **CHM 265L Instrumental Methods of Chemical Analysis Laboratory (2)**

Application of chelometric, redox, precipitometric, aqueous and non-aqueous acid-base methods for chemical analysis of organic and inorganic compounds. Operation of polarographs, conductimeters, potentiometers,

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



coulometers, and electroanalyzers for applications in electrochemical methods of analysis. Operation of a microprocessor controlled liquid scintillation counter, gamma spectrometer, and Geiger-Muller counter for applications in radioisotope methodology. Statistical evaluation of data obtained by the various analytical methods. For Chemical Engineering Technology and Liberal Arts "chemical model" students.  
**6 Laboratory Hours; Prerequisites:** 1 full year of general chemistry, MAT 162 Applied Calculus I, PHY 162 Physics II and CST 140 Computer for Chemists or equivalent; **Corequisite:** CHM 265 Instrumental Methods of Chemical Analysis

### **CHM 266 Instrumental Methods of Chemical Analysis (3)**

Principles and techniques of modern instrumental methods of chemical analysis, including ultraviolet visible, infrared, nuclear magnetic resonance, atomic absorption, emission and mass spectroscopy. Ion, gas and liquid chromatography. Chemical and scanning electron microscopy and differential thermal analysis. For Chemical Engineering Technology students.

**3 Class Hours; Prerequisite:** CHM 265 Instrumental Methods of Chemical Analysis; **Corequisite:** CHM 266L Instrumental Methods of Chemical Analysis Laboratory

### **CHM 266L Instrumental Methods of Chemical Analysis Laboratory (2)**

Analysis by optical, chromatographic, thermal techniques, and trace methods applied to contemporary, industrial and environmental problems.

**6 Laboratory Hours; Prerequisite:** CHM 265 Instrumental Methods of Chemical Analysis; **Corequisite:** CHM 266 Instrumental Methods of Chemical Analysis

### **CHM 271 Chemical Processes (3)**

Material and energy balances along with applied and physical principles as they apply to chemical engineering. Emphasis on chemical problem solving.

**3 Class Hours; Prerequisites:** CHM 162 Chemistry, MAT 162 Applied Calculus I, PHY 162 Physics II and CST 140 Computers for Chemists or equivalent; **Corequisite:** CHM 271L Chemical Processes Laboratory

### **CHM 271L Chemical Processes Laboratory (2)**

Application of lecture topics to industrial situations. Emphasis on written and oral reports.

**4 Laboratory Hours; Corequisite:** CHM 271 Chemical Processes

### **CHM 272 Chemical Processes (3)**

Staged operations dealing with phase equilibrium. Graphical, analytical and computer methods are used to solve unit operations problems.

**3 Class Hours; Prerequisite:** CHM 271 Chemical Processes; **Corequisite:** CHM 272L Chemical Processes

### **CHM 272L Chemical Processes Laboratory (2)**

Measurement of phase equilibrium. Graphical, analytical and computer methods are used to solve unit operations problems.

**4 Laboratory Hours; Corequisite:** CHM 272 Chemical Processes

### **CHM 290 Forensic Toxicology (3)**

Application of the principles of forensic toxicology and the related forensic sciences within the scope of medical-legal investigation. Drug and poison analysis, examination of physical evidence and death investigation. Laboratory sessions will provide basic knowledge of forensic analysis utilizing microscopy, gas chromatography, thin layer chromatography and spectroscopy.

**2 Class Hours, 2 Laboratory Hours; Prerequisite:** CHM 120 Fundamental Chemistry or a semester of General Chemistry or permission of instructor

### **\*CHM 291 Organic Chemistry I (3)**

### **\*CHM 292 Organic Chemistry II (3)**

Nomenclature, properties of selected functional groups, mechanisms, stereochemistry, synthetic methods and spectroscopy. The laboratory stresses basic techniques of reactions, separations and isolations by classical methods as well as modern instrumental techniques.

**2 Class Hours, 3 Laboratory Hours each; Prerequisites:** CHM 146 Chemistry for CHM 291, CHM 292 Organic Chemistry\* for CHM 292

### **\*CHM 293 Analytical-Instrumental Chemistry I (3)**

Classical analytical chemistry — sampling, statistics, gravimetric and volumetric analysis. Introduction to electrochemistry.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** CHM 146 Chemistry

### **\*CHM 294 Analytical-Instrumental Chemistry II (3)**

Continuation of CHM 293 Analytical-Instrumental Chemistry I. Additional electrochemistry and electrochemical techniques. Emphasis on spectroscopic and chromatographic methods. Visible, infrared and nuclear magnetic resonance spectroscopy. Gas, liquid, column and thin layer chromatography.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** CHM 293 Analytical-Instrumental Chemistry I

### **CHM 299 Independent Study (1-4)**

The student undertakes an independent project in his/her specialty under the guidance of a faculty member. Only one independent study course allowed per semester. Consideration may be given a project involving a work assignment.

**Prerequisite:** Departmental approval

### **CIV 110 Introduction to Civil Engineering Technology (1/2)**

Introduction to the College and its policies and procedures including the library, placement, academic advisement and study skills. Reasonable skill in the hand-held calculator to be developed. Introduction to Personal Computers and Word Processing. Program course advisement including mathematics sequences. Outside speakers representing the various sectors of employment.

**1 Class Hour**

### **CIV 111 Surveying I (4)**

Fundamentals of plane surveying. Angle and distance measurement, leveling, stadia, note keeping, operation and care of instruments, traversing and topographic surveys. Use of the level, transit, theodolite and Electronic Distance-Measuring (EDM) instruments. Extensive laboratory application of theory.

**2 Class Hours, 6 Laboratory Hours; Prerequisite:** MAT 140 or equivalent

### **CIV 112 Surveying II (2)**

A continuation of CIV 111 Surveying I. Topographic surveying and mapping, boundary surveys, astronomic direction, control surveys, satellite surveying systems, construction surveys, state plane coordinates, use of total stations and data collector, computer applications using wild Surveying software.

**1 Class Hour, 3 Laboratory Hours; Prerequisite:** CIV 111 Surveying I

### **CIV 115 Engineering Drawing (2)**

Fundamentals of Engineering Drawing includes care and use of instruments, linework, lettering, geometric constructions, orthographic projection, sections, auxiliary views, pictorial drawings, isometric and oblique drawings, and dimensioning. Introduction to CAD.

**1 Class Hour, 3 Laboratory Hours**

### **CIV 119 Architectural Drafting (2)**

Fundamentals of architectural drafting including floor plans, elevations, sections, details, schedules, plot plans, plumbing layouts, electrical layouts. Emphasis on residential drawings.

**4 Laboratory Hours; Prerequisite:** CIV 115 Engineering Drawing

### **CIV 124 Mechanics (Statics) (3)**

Static force systems and equilibrium. Free body diagrams, trusses, graphic statics, spatial force systems, friction, centroids, moments of inertia.

**3 Class Hours; Prerequisite:** PHY 161 Physics I

### **\*CIV 155 Surveying (3)**

Plane surveying including distance measurement, note keeping, compass surveying, leveling, angle measurement, care and use of instruments, stadia, traversing, coordinates, area computation, mapping and records.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** MAT 139 Algebra and MAT 140 Trigonometry or equivalent

### **\*CIV 156 Route Surveying (4)**

Horizontal and vertical curves, spirals, sight distances and earthwork. Introduction to computer applications. Laboratory includes problem sessions using the college's computer to solve coordinate geometry problems.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** CIV 155 Surveying

### **\*CIV 159 Architectural Drafting I (3)**

Development of working drawing for use in residential type construction. Plot plans, floor plan, elevations, details, schedules, electrical layouts. Lectures to include construction materials, specifications and methods.

**2 Class Hours, 3 Laboratory Hours**

### **\*CIV 160 Architectural Drafting II (3)**

A continuation of CIV 159 Architectural Drafting I. Development of working drawings from two-story and split-level residences.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** CIV 159 Architectural Drafting I

### **\*CIV 161 Architectural Drafting III (3)**

Development of a set of working drawings for a small two-story commercial building including floor plans, elevations, sections, details, mechanical and electrical layouts, window and door schedules. Term project.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** CIV 160 Architectural Drafting II

### **CIV 205 Introduction to Computer Graphics with Architectural Applications (3)**

Introduction to the operation of the College's Architectural CAD system — ARRIS. Construction, manipulation, and editing of basic drawing elements. Architectural applications using the Building Design and Drafting package and the Architectural Drafting and Documentation package - floor plans, sections, elevations, details. Use of symbol libraries; "smart walls"; automatic generation of materials lists, cost estimates, window and door schedules, elevation views. Introduction to 3D modeling and rendering.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** Cartesian/Polar Coordinate Systems and an acceptable background in engineering or architectural drawing

### **CIV 216 Route Surveying (3)**

Simple and compound curves, vertical curves, spirals and earthwork. Selected topics in route design, and curve problems in highway design. Computer applications (COGO).

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** CIV 111 Surveying I

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



**CIV 217W Materials Testing (3)**

Composition, properties and testing of construction materials. Major emphasis on plain concrete. Aggregates, cements, admixtures, design and proportioning of concrete mixes, curing and inspection. Bituminous materials, ferrous metals and structural timber – load and deformation measurements, behavior of materials under load, strain gages. Writing Emphasis Course.

**2 Class Hours, 3 Laboratory Hours; Corequisite: CIV 219 Strength of Materials**

**CIV 219 Strength of Materials (4)**

Concept of stress and strain. Behavior of materials due to axial force, shear, torsion and moment. Stresses in beams and columns, shear and moment diagrams, deflections, determinate and indeterminate members, composite members, combined stresses. Stresses for structural timber, bolted timber joints, timber connectors and combined stresses.

**4 Class Hours; Prerequisite: CIV 124 Mechanics (Statics)**

**CIV 224 Reinforced Concrete Design (3)**

Fundamental theory and principles for design of reinforced concrete by the strength method. Design, analysis and detailing of rectangular beams, T-beams, beams reinforced for compression, columns and footings. Theory of prestressed concrete. An integrated design and detailing project.

**2 Class Hours, 3 Laboratory Hours; Prerequisite: CIV 219 Strength of Materials**

**CIV 226 Structural Steel Design (3)**

Fundamental theory and principles for design of simple steel structures using LRFD Method. Design, investigation and detailing of beams, columns, tension and compression members and their connections. Composite beams. An integrated design and detailing project. Introduction to use of structural analysis/design computer program.

**2 Class Hours, 3 Laboratory Hours; Prerequisite: CIV 219 Strength of Materials**

**\*CIV 228 Estimating and Construction Planning (3)**

A systematic approach to estimating building project costs combined with a study of construction scheduling techniques. Use of spreadsheet as an estimating tool. Term project in estimating.

**2 Class Hours, 2 Laboratory Hours**

**CIV 231 Estimating and Construction Planning (3)**

A systematic approach to estimate building project costs. Term project building cost estimate. Use of spreadsheet as an estimating tool.

**2 Class Hours, 3 Laboratory Hours; Prerequisite: CIV 119 Architectural Drafting**

**CIV 236 Construction Management (3)**

Principles of construction management, specification writing, with emphasis on planning, building, scheduling and controlling a project. Use of critical path methods.

**3 Class Hours; Prerequisite: CIV 119 Architectural Drafting or equivalent**

**CIV 237 Hydraulics (3)**

Hydraulics including properties of fluids, hydrostatics, fluid motion in or through orifices, nozzles, pipes, wires, open channels, pipe branches and networks.

**2 Class Hours, 3 Laboratory Hours; Prerequisite: CIV 124 Mechanics (Statics)**

**CIV 238 Architectural Design and Building Materials (3)**

Design and detailing of commercial building including site considerations, space requirements, layout planning, building materials, construction methods, construction details, working drawings. Emphasis on individual creativity. Semester project. Technical oral presentation.

**2 Class Hours, 3 Laboratory Hours; Prerequisite: CIV 119 Architectural Drafting**

**CIV 240 Soil Mechanics (3)**

Soil origin and nature, soil density, test borings, gradation, compaction, soil water, frost in soil, classification, permeability, shear strength, stress distribution, bearing capacity, piles. The laboratory covers ASTM and AASHTO specifications used in classifying and predicting behavior of soils.

**2 Class Hours, 3 Laboratory Hours; Prerequisite: CIV 219 Strength of Materials**

**\*CIV 255 Reinforced Concrete Design (3)**

Fundamental behavior of reinforced concrete. Design and analysis of rectangular beams, T-beams, beams reinforced for compression, columns and footings. Major emphasis on strength design methods.

**3 Class Hours; Prerequisite: MET 235 or CIV 219 Strength of Materials**

**\*CIV 257 Structural Steel Design (3)**

Fundamental theory and principles necessary for design of simple steel structures. Design and analysis of beams, columns, tension members, compression members and their connections. Composite beams, framing systems, loads and forces.

**3 Class Hours; Prerequisite: MET 235 or CIV 219 Strength of Materials**

**\*CIV 266 Hydraulics (3)**

A basic course in theory and practical applications of hydraulics. Properties of fluids, measurements, hydrostatics, dynamic problems of both pipe and open channel flow. Application and limitations of some of the design aids in common use.

**3 Class Hours; Prerequisite: MET 132 Applied Mechanics or equivalent**

**\*CIV 268 Engineering Economics (2)**

Use of compound interest in financing and in determining engineering cost comparisons. Introduction of depreciation methods. Illustrative cases and problems (personal and engineering) including New York State Professional Engineering Examination problems.

**2 Class Hours; Prerequisite: MAT 139 Algebra or equivalent**

**CIV 299 Independent Study (1-4)**

The student undertakes an independent project in his/her specialty under the guidance of a faculty member. Only one independent course allowed per semester. Consideration may be given to a project involving a work assignment.

**Prerequisite: Departmental approval**

**COM 100 Introduction to Mass Media (3)**

Overview of the components of American mass media, including history, structure, economics, regulation, verbal and visual imagery, and dynamics. Radio, television, newspapers, magazines, film, and the closely related advertising and public relations field are surveyed.

**3 Class Hours**

**COM 115 Writing for the Media (3)**

An introductory study of the elements necessary for media writing. Students will be exposed to writing formats commonly used in media production. Writing formats covered may include news reporting, TV/radio advertising, drama, documentaries and sports. Students will have the opportunity to utilize their writing skills in many of the aforementioned areas.

**3 Class Hours; Prerequisite: ENG 110 Written Expression I**

**COM 125 Introduction to Audio Theory and Production (3)**

Students will be exposed to audio terminology and production techniques. Equipment discussed and used by students include mics, speaker, mixers, tape recording devices, and a variety of signal processing equipment. Production areas discussed will include radio production and studio production, as well as personal home and automotive systems. Both analog and digital system formats will be introduced.

**3 Class Hours**

**COM 130 Introduction to Video Theory and Production (3)**

Introduction to the basic aspects of technical and production techniques of television. Emphasis will be placed on theory and use of television equipment, staging, lighting, television graphics, scripting, basic engineering, distribution systems and studio personnel. In addition to the student produced and directed assignments, members of the class will participate in production crews for final video projects.

**3 Class Hours**

**COM 135 Selection, Evaluation and Utilization of Media (3)**

Introductory course to help the student choose the most practical mode of media for communicating an idea or objective. Hardware and software will be made available for hands on utilization by students. Media studied will include newspapers, radio, TV, magazines and film. Students will prepare some media materials for the course.

**3 Class Hours**

**COM 145 Contemporary Film Analysis (3)**

Issues pertaining to film analysis and critique: cinematography, narrative vs. non-narrative structure, symbolism, genre, realism vs. expressionism, composition, editing style. Analysis of contemporary issues through screening and discussion of film/cinema work of all historical periods.

**3 Class Hours**

**COM 200 Image Theory for Film Photography and Television (3)**

Study of important theories of image production and effectiveness. Survey of several significant photographers, filmmakers, and television artists and their work. Emphasis on the formal elements of the still and moving image and their psychological and aesthetic effects.

History and development of visual image production from the pre-technological era to present, with a view toward understanding the universal nature of the need for visual and conceptual expression among all mediums. Role of technology in the creative and aesthetic process, as well as the interplay of artistic and societal goals.

**3 Class Hours**

**COM 205 Introduction to Filmmaking (3)**

Introduction to the craft of filmmaking and motion picture production. A hands-on approach to the principles of cinematography, including formats, film stocks, lighting, and camera operation. Students will learn the production techniques involved in silent, single-system and double-system filmmaking, as well as sound recording, editing, and shooting film for video transfer and postproduction. Script writing, crew positions and responsibilities, and working with on-camera talent will also be covered. Students will be expected to complete a brief film project either individually or as a group, and must pay their own film and lab fees.

**2 Class Hours, 2 Laboratory Hours**

**COM 210 Advanced Video Production (3)**

This course stresses the application of basic video production theory and techniques as they apply to a variety of productions such as Advertisements, News, Drama, Sports or other such events. Students will be responsible for ideas, scripting, design, production, editing and evaluation of final projects. Both studio and portable systems will be available for student use.

**2 Class Hours, 2 Studio Hours; Prerequisite: COM 130 Introduction to Video Theory and Production**

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



**COM 250 Internship (3)**

Placement in a communications related job. Involves in addition to job requirements, directed reading, meetings with the intern supervisor, and written assignments. Internships are not paid positions.

**COM 266 Acting for TV, Film and Commercials (3)**

Proficiency in performing before the camera. Character analysis, quick-study, retakes, voice-overs, studio projection, facial nuances, and subtlety of mannerism.

2 Class Hours, 2 Studio Hours

**COM 299 Independent Study (1-3)**

An individual student project concerned with advanced work in a special area of communication. Conducted under the direction of a faculty member, independent study is concerned with material beyond the scope and depth of the ordinary course. (Requires application and approval.)

**Prerequisite:** 3 semester hours of college level work in communications

**CRJ 101 Introduction to Criminal Justice (3)**

Overview of the major components of the criminal justice system: law enforcement, prosecution, trial courts and corrections. A systems approach is utilized with an emphasis on the structure, functions and interdependence of these and other criminal justice system components.

3 Class Hours

**CRJ 105 Introduction to Corrections (3)**

Overview of the corrections components of the criminal justice system, tracing the history of corrections in the United States. Relationships and interdependencies of corrections with the court and law enforcement components of the criminal justice system and a discussion of the theoretical basis for the four major types of correctional models.

3 Class Hours

**CRJ 115 Juvenile Justice System (3)**

Overview of the juvenile system, including the history, process, status and philosophy of the juvenile court. Law enforcement handling of juveniles, various theories of delinquency causation, correctional programs and alternative methods of dealing with juvenile offenders.

3 Class Hours

**CRJ 125 Penal Law (3)**

Essential elements of the various crimes under the New York State Penal Law. The concepts of culpability and criminal defenses recognized under the New York State Penal Law as they relate to murder, rape, robbery, burglary, arson, assault, drug offenses, disorderly conduct and harassment.

3 Class Hours

**\*CRJ 130 Introduction to Security (3)**

Organization and management of the security function in industry, business, government and institutions. The protection of personnel, facilities and other assets, as well as administrative, legal and technical problems of loss prevention and control.

3 Class Hours

**\*CRJ 212W Criminal Procedure and Constitutional Law (3)**

The right to counsel, search and seizure, confessions, lineups, electronic surveillance, probation and parole. Writing Emphasis Course.

3 Class Hours; **Prerequisite:** ENG 110

**\*CRJ 215 Police Administration (3)**

Fundamentals of organization, supervision and overall management of police and civilian personnel. Designed to supply a background for the students in dealing with the complexities involved in the management aspect of various police agencies.

3 Class Hours; **Prerequisite:** CRJ 101 Introduction to Criminal Justice

**\*CRJ 225 Security Administration (3)**

Administration of public and private security efforts: problems in protection program development and evaluation, functions of various levels of personnel, company/organizational relations, documents and personnel access control, detection systems, devices, and equipment, emergency and disaster planning, new directions in the field of security.

3 Class Hours

**\*CRJ 230 Criminal Investigation (3-5)**

Basic principles of investigation as they relate to the collection, preservation, identification and examination of physical evidence. Techniques for locating and interviewing witnesses and interrogating suspects. (Currently being revised.)

3 Class Hours (BCC); 4 Lab Hours (Corning C.C. Additional tuition and fees). **Prerequisite:** CRJ 101 Introduction to Criminal Justice

**\*CRJ 255 Special Topics in Criminal Justice (1-3)**

The specific area to be covered will be based upon identified needs and interests of criminal justice students. This course also provides a forum for professional individuals in the criminal justice field with a particular expertise to share their knowledge and skills with students. Special topics have included Criminalistics, Police Community Relations, Drug Law, Current Legal Issues, and Domestic Violence.

1-3 Class Hours; **Prerequisites:** CRJ 101 Introduction to Criminal Justice

**CRJ 260 Organized Crime (3)**

Role of legal system in organized crime control, preventative methods, political influences; white collar crime, methods of intelligence gathering; relationships of organized crime to community social structure.

3 Class Hours; **Prerequisite:** CRJ 101 Introduction to Criminal Justice or permission of chairperson

**CRJ 295 Criminal Justice Practicum (3)**

Designed as a field experience for students in selected settings (Public Defender, Police Agencies, etc.). Weekly seminars to augment experiences with operations, procedures and policies. Flexible scheduling hours TBA.

**CRJ 299 Independent Study (1-3)**

An individual student project concerned with advanced level work beyond the scope or breadth of regular courses. A specific area or topic is investigated under the direction of a faculty member. Must be approved by department chairperson and Dean.

**Prerequisites:** CRJ 101 Introduction to Criminal Justice and 6 credits in CRJ courses

**CST 101 Orientation (0)**

An opportunity for students to receive information about advisement and registration, transfer, study skills and department policies. Speakers from Broome Community College, from other colleges, and from business and industry also may be scheduled. All freshman Computer Studies students are required to complete this course.

**CST 105 Understanding Computers\*\* (3)**

An introductory course in computer concepts. An integrated software package will be used to familiarize students with word processing, spreadsheets, and file management. Commercial packages from the student's area of concentration may be presented.

2 Class Hours, 2 Laboratory Hours

\*\*Students cannot receive credit for both CST 105 and CST 107

**CST 107 Business Applications on the Microcomputer\*\* (3)**

Use of business applications software on the IBM-PC. Hands-on experience with word processing, spreadsheets and databases using the computer as a problem solving tool. Commercial versions of popular applications software may be explained and demonstrated.

3 Class Hours; **Prerequisite:** BUS 100 Accounting I and a proficiency in Typing

\*\*Students cannot receive credit for both CST 105 and CST 107

**CST 108 Programming in Basic (3)**

Introduction to computer programming using BASIC on the IBM-PC. No previous programming experience is necessary. Topics include input-output statements, IF-THEN statement, FOR-NEXT loops, WHILE loops, subscribed variables, string manipulation. Modular development and self-documentation will be emphasized. MAY NOT BE TAKEN FOR DEGREE CREDIT BY COMPUTER STUDIES STUDENTS.

2 Class Hours, 2 Laboratory Hours; **Prerequisite:** MAT 092 Introduction to the Concepts of Algebra or equivalent

**CST 115 Introduction to Pascal (3)**

Introduction to the fundamentals of structured programming using Pascal. Topics may include input-output statements, data types, loop structures, procedures and functions. Lab assignments emphasize program development using modular design and self-documentation. Programming will be done using Turbo Pascal.

2 Class Hours, 2 Laboratory Hours; **Corequisite:** MAT 099 Introduction to the Concepts of Algebra or equivalent and an introduction to computing course or equivalent

**CST 116 RPG II and RPG III (3)**

Fundamentals of RPG (Report Program Generation), a language used by many small business installations. Topics include specification sheets, internal logic, control breaks, branching, tables and table look-up. Lab assignments will be done in RPG II. Additional topics from RPG III will be discussed.

2 Class Hours, 2 Laboratory Hours; **Prerequisite:** An introduction to computing course

**CST 117 Language Independent Design Tools (2)**

An introduction to proper design techniques for structured programming languages. This course presents several Language Independent design tools. Topics covered include: problem solving techniques, modular design, logic flow representation techniques, how to perform a proper trace, subroutines, Binary and Hexadecimal arithmetic, and other fundamentals of software engineering.

2 Class Hours; **Pre or Corequisites:** MAT 139 College Algebra or equivalent and a high school computer course or equivalent. **Suggested Corequisite:** CST 132 Structured Programming in Pascal or CST 128 Structured Programming in COBOL

**CST 119 Computer Concepts and Applications (3)**

A foundation course for computer studies majors who have had some exposure to computers. The lecture covers basic concepts in computers, the lab introduces the major end user software tools. Content includes computer hardware: input and output devices, memory, CPU, classification of computers; networks; historical development; social and ethical implications of computer: employment, crime, privacy. Lab exercises include word processing, file management, spreadsheets, graphics and various operating systems. Students should have completed a high school computer science course or the equivalent.

2 Class Hours, 2 Laboratory Hours; **Prerequisite:** High School Computer Course or equivalent; **Corequisite:** MAT 099 Introduction to Concepts of Algebra or equivalent

**CST 121 C Programming for Students of Technology (3)**

Introduction to the C language with an emphasis on solving problems from the technologies. Topics include: data types, program control, input/output, arrays, and structures. Programming user defined function as well as integrating standard functions from the standard math library will be addressed.

2 Class Hours, 2 Laboratory Hours; **Prerequisite:** Working knowledge of algebra and trigonometry

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



**CST 122 Scientific Computer Programming — FORTRAN (3)**

Introduction to problem solving techniques using FORTRAN including development of an algorithm, flow charting, program writing, debugging, storage, and execution, input and output, loop techniques, array manipulation, file control and control of on-line equipment, structured programming, terminal and batch operations. Material to be covered taken from student's area of study. For Engineering Technology students.  
**2 Class Hours, 2 Laboratory Hours; Prerequisite: Working knowledge of algebra and trigonometry**

**CST 128 Structured Programming in COBOL (4)**

Problem solving using the structured programming techniques of COBOL. Top down design is emphasized. Programming steps include program definition, structure charts, coding, debugging, testing and validation, documentation and program maintenance. Topics include file handling, looping, program modularization, control breaks, tables, and interactive programming. Lab assignments reflect common business applications.  
**3 Class Hours, 2 Laboratory Hours; Prerequisite or Corequisite: CST 117 Language Independent Design Tools, and MAT 139 College Algebra or equivalent**

**CST 132 Structured Programming in Pascal (4)**

Problem solving using the structured programming techniques of Pascal. Top down design and modular structure will be emphasized. Programming steps include program definition, structure charts, coding, debugging, testing and validation, documentation, program maintenance. Topics covered include loop structures, procedures, functions, scalar and ordinal types, arrays, records, and text files. Lab assignments will require modular structured programming.  
**3 Class Hours, 2 Laboratory Hours; Prerequisite: MAT 139 College Algebra or equivalent; Prerequisite or Corequisite: CST 117 Language Independent Design Tools**

**CST 140 Computer for Chemists (3)**

Introduction to the application of microcomputers to solve problems in chemistry. Topics include scientific word processing emphasizing chemical applications, the principles of structured programming using BASIC, chemical graphing utilizing the student's own laboratory data along with linear and non-linear regression will be introduced using spreadsheets, and file transfer between microcomputer application programs and utilizing the college's mainframe computer network to simulate a CIM environment. FOR CHEMICAL ENGINEERING TECHNOLOGY STUDENTS.  
**2 Class Hours, 2 Laboratory Hours; Corequisite: CHM 162 Chemistry or CHM 146 Chemistry and MAT 162 Applied Calculus or MAT 181 Calculus I with Analytic Geometry or permission of Chemistry Department Chairperson**

**CST 141 Scientific Computer Programming (3)**

Problem solving using FORTRAN and C computer programming languages. Development of steps to solve a problem (algorithm), use of a text editor, computer terminal operation, file storage and retrieval, program writing, debugging and execution, and program documentation. Components include: input/output and format statements, control and loop techniques, modular programs and subroutines, one and two dimensional arrays, complex data, sequential data files, and library functions.  
**2 Class Hours, 2 Laboratory Hours; Corequisite: MAT 161 Precalculus**

**CST 155 C/C++ Programming with Objects (4)**

This course assumes a complete understanding, and experience with High-Level Language programming concepts. The course quickly takes the student through necessary C/C++ syntax, on to more advanced topics. Topics covered will include: C/C++ overview, variables,

constants, program control, I/O, functions, preprocessors, arrays, structures, pointers, classes, and object-oriented programming.

**3 Class Hours, 2 Laboratory Hours; Prerequisite: CST 132 Structured Programming in Pascal, or CST 128 Structured Programming in COBOL; with a minimum a minimum grade of "C" or better**

**CST 158 Spreadsheets With Financial Applications (3)**

An introduction to commonly encountered financial calculations which can be done efficiently with a spreadsheet package. Topics include interest problems, amortization, capital depreciation, break-even analysis, and forecasting. Labs will be done using Lotus 1-2-3.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: MAT 099 Elementary Algebra or equivalent and an Introduction to Computing Course**

**CST 160 ADA Programming (3)**

Introduction to module programming techniques using the ADA programming language. Presentation of the SYNTAX of the language. Emphasis will be made on the unique features of this language which includes generic subprograms and packages, private and access types, tasking, parallel computation and exception handling.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: MAT 161 Precalculus or equivalent and one of the following: CST 132 Structured Programming in Pascal, CST 128 Structured Programming in COBOL, CST 115 Introduction to Pascal or permission of the instructor**

**CST 170 Digital Logic (3)**

Comprehensive coverage of basic gates, Boolean algebra, Karnaugh mapping and Quine McCluskey technique for circuit simplification. Adders, subtractors, multiplexers, code converters, asynchronous and synchronous counters presented in detail as basic computer building blocks. Analog-digital and digital-analog interfacing. Lab exercises utilize TTL and CMOS chips.  
**2 Class Hours, 2 Laboratory Hours; Prerequisite or Corequisite: CST 132 Structured Programming in Pascal and CST 117 Language Independent Design Tools**

**CST 200 Systems Analysis I (3)**

A first course dealing with the principles of systems analysis and problem solving, concentrating on investigation and analysis of systems and their resulting design. Emphasis on the importance of standards, procedures, documentation and design tools. A variety of group and individual lab assignments will include analysis and design tools, prototyping and CASE.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: CST 128 Structured Programming in COBOL or CST 132 Structured Programming in Pascal and CST 119**

**CST 201 Systems Analysis II (3)**

Continuation of the principles of systems analysis with a concentration on systems development, implementation and evaluation. A team case study approach is used to develop a system according to principles of structured Analysis and Design. Programs will be written using database software and structured programming techniques. Writing emphasis Course.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: "C" grade or better in both CST 213 Database Systems and CST 200 Systems Analysis I**

**CST 202 Data Structures with C/C++ (3)**

This course assumes a complete understanding, and experience with the C/C++ programming language. The course gives the student the necessary design philosophies, fundamental syntax, and experience with, advanced programming concepts. Topics covered include: static and dynamic data structures, arrays, structures, files, linked lists, stacks, queues, trees, and directed graphs. Structured, modular programming, and extensive documentation is required. Writing Emphasis Course.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: CST 155 C/C++ Programming with Objects with a minimum grade of "C" or better**

**CST 213 Database Systems (3)**

An introductory course in database management with a focus on the effective use of database systems, database design principles, and database security and protection. Labs will use a relational database system and include database queries, creating and indexing tables, application development and programming. Students will also be exposed to SQL.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: CST 128 Structured Programming in COBOL or CST 132 Structured Programming in Pascal and CST 119**

**CST 214 Computer Operations: Procedures and Management (3)**

A broad based course introducing the concepts of operations and scheduling in the computer center environment. This course will NOT involve writing operating system programs. Topics include Job Control Language, command files, computer center operations, scheduling, high-level programming tools. Labs will provide hands-on experience with operations, multiple hardware systems and both systems and application software.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: CST 128 Structured Programming in COBOL or CST 132 Structured Programming in Pascal**

**CST 218 Advanced COBOL (3)**

A second course in the use of the COBOL language as a means of implementing computerized solutions to business & information processing problems. Topics include batch and interactive processing, various file access techniques, use of advanced language statements and common utilities such as library functions, copy statements and subprograms. Writing Emphasis Course.  
**2 Class Hours, 2 Laboratory Hours; Prerequisite: CST 128 Structured Programming in COBOL with "C" grade or better**

**CST 220 Microprocessors and Assembly Language Programming (3)**

This course includes an introduction to the 32-bit Intel 80486/80386 architecture with programming techniques utilizing the Intel microprocessor and coprocessor family. Concepts include: programming modes, branching, flags, stacks, procedures, macros, interrupts, arithmetic and logic operations, multiple precision arithmetic and string operations. Extensive laboratory work is done on small systems.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: One structured programming language; Co- or Prerequisite: CST 170 Digital Logic**

**CST 222 Special Topics in Computing (3)**

Topics in this course will acquaint students with current techniques in programming and interfacing. Course topics may include: Local area networks; wide area networks; object oriented graphic techniques; multimedia programming.

**CST 225 Introduction to Small Systems (3)**

Introduction to the concepts and implementation of small computer systems. Topics include hardware and software techniques, keyboards, display terminals, printers, graphics magnetic storage, disk drives, disk operating systems, telecommunications techniques, and networking. Extensive use of a small system in the laboratory will reinforce classroom concepts. Writing Emphasis Course.

**2 Class Hours, 2 Laboratory Hours; Prerequisite: CST 220 Microprocessors and Assembly Language Programming and CST 155**

\*All asterisked (\*) courses are taught evenings only and when enrollment permits.



**CST 228 GDI Programming with C/C++ (3)**

This course is a natural extension of CST 155, C/C++ Programming for Programmers. The course teaches Graphics Device Interfacing (GDI) with Windows and Windows NT Programming Concepts. Topics include programming advantages of a GDI environment, concepts and techniques. Icons, cursors, bitmaps, fonts, menus, dialog boxes, etc. are integrated into the GDI environment. Extensive programming and laboratory work matches the lecture topics. Writing emphasis course.

**2 Class Hours, 2 Laboratory Hours; Prerequisites:** CST 155 C/C++ Programming with Objects

**CST 297 Cooperative Work Experience (1-3)**

Cooperative education in computing may be available. On-the-job experience may be obtained by working with business, industries, and offices whose operations require the use of computers. To be eligible a student must maintain a cumulative grade point average of 2.5 with a 3.0 average in CST courses and have no "F" grades.

**CST 299 Independent Study (1-3)**

The student undertakes an independent project, under the guidance of a faculty member, which is beyond the scope of courses currently offered by the department. Only one independent study project allowed per semester.

**CTP 275 Community Internship (3)**

For qualified students a work experience in the professional field in which they plan to major, as they intern in Broome County Government or non-profit human services agencies.

**1 Class Hour, 8 Practicum Hours; Prerequisites:** Application, interview, and a "B" average.

**DEN 101 Dental Hygiene I (4)**

Introduction to skills utilized in the contemporary practice of dental hygiene, including infection control procedures, patient assessment and treatment. Theory is applied in preclinic setting on student patients.

**2 Class Hours; 8 Lab Hours; Corequisite:** DEN 108 Infection Control in Dentistry

**DEN 102 Dental Hygiene II (5)**

Continuation of DEN 101 Dental Hygiene I. Theory in dental hygiene care including assessment, planning, implementation and evaluation of patient care including medically compromised patients, emergency medical and dental procedures and oral physiotherapy and oral health instruction. Theory is writing emphasis. The clinical experience emphasizes patient assessment, treatment planning, instrumentation and oral health instruction.

**3 Class Hours, 8 Clinic Hours; Prerequisites:** DEN 101 Dental Hygiene I, DEN 103 Oral Anatomy and Physiology and DEN 108 Infection Control in Dentistry; BIO 131 Human Biology I or permission of the Department

**DEN 103 Oral Anatomy and Physiology (4)**

Normal structure and function of the oral cavity (microscopic and gross). Laboratory work provides experience with microscopic and macroscopic study of structures in the oral cavity, head and neck.

**3 Class Hours, 3 Laboratory Hours**

**DEN 106 Clinical Dental Radiography (2)**

Radiation physics and biology; understanding of radiation health, safety and protection; radiographic quality, intraoral dental radiographic techniques, film processing and mounting, interpretation of radiographic errors and recognition of anatomical landmarks. Theory is applied in the laboratory setting on radiographic dexters and adult patients.

**1 Class Hour, 2 Lab Hours; Prerequisites:** DEN 101 Dental Hygiene I, DEN 103 Oral Anatomy and Physiology, BIO 131 Human Biology I or permission of the instructor

**DEN 107 Introduction to Periodontology (1)**

Introduction to pathology of the supporting structures of the teeth, including etiology, recognition and description of gingivitis and periodontitis. This course provides an introduction to periodontology.

**1 Class Hour; Prerequisites:** DEN 101 Dental Hygiene I, DEN 103 Oral Anatomy and Physiology, DEN 108

**DEN 108 Infection Control in Dentistry (1)**

Theory in infection control in the dental hygiene practice, including responsibility for infection control practices, transmission of disease and methods for preventing disease transmission for the hygienist and patient.

**1 Class Hour; Corequisite:** DEN 101 Dental Hygiene I

**DEN 110 Dental Materials (3)**

Composition, chemical and physical properties and use of materials used in dental laboratory and operatory. Laboratory sessions will provide experience in performing common dental laboratory procedures and background for clinical application of expanded functions.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** DEN 103 Oral Anatomy and Physiology or permission of the instructor

**DEN 201 Dental Hygiene III (5)**

Continuation of DEN 102 Dental Hygiene II. Integration of theory with clinical experience in various oral hygiene preventive and therapeutic procedures. Emphasis on planning and execution of the total patient treatment.

**2 Class Hours, 12 Clinic Hours; Prerequisites:** DEN 102 Dental Hygiene II, DEN 106 Clinical Dental Radiography, DEN 107 Introduction to Periodontology, DEN 110 Dental Materials, BIO 131 Human Biology I and BIO 132 Human Biology II; CPR Certification AHA Provider C

**DEN 202 Dental Hygiene IV (5)**

Continuation of DEN 201 Dental Hygiene III. Comprehensive clinical experience in all phases of dental hygiene practice. Introduction to computer use in dental office management.

**2 Class Hours, 12 Clinic Hours; Prerequisites:** DEN 201 Dental Hygiene III, DEN 204 General and Oral Pathology, DEN 205 Periodontology and DEN 209 Nutrition

**DEN 204 General and Oral Pathology (3)**

Broad picture of the disease process through the study of common general diseases, their cause, results and treatment. Emphasis on the principles of inflammation, healing and repair, oral disease, their causes, recognition and treatment.

**3 Class Hours; Prerequisites:** DEN 102 Dental Hygiene II, BIO 132 Human Biology and BIO 160 Microbiology or permission of the instructor

**DEN 205 Periodontology (2)**

Overall study of the pathology of the supporting structures surrounding the teeth. Special emphasis on recognition and treatment of the periodontal patient within the scope of the dental hygienist.

**2 Class Hours; Prerequisites:** DEN 102 Dental Hygiene II, DEN 106 Clinical Dental Radiography, BIO 132 Human Biology II and BIO 160 Microbiology or permission of the instructor

**DEN 206 Dental Pharmacology (2)**

Pharmacology as it affects the clinical practice of dental hygiene and dentistry. Drugs commonly used in dentistry and correct methods for their use. Emphasis on pharmacological aspects of anesthesia.

**2 Class Hours; Prerequisite:** DEN 201 Dental Hygiene III or permission of the instructor

**DEN 209 Nutrition (3)**

Basic nutrition principles, including metabolism, functions, sources, and conditions resulting from excessive

or inadequate intake of each nutrient. Study of diet planning, dietary guidelines, weight control, and current nutrition topics and controversies. Special emphasis on the relation of nutrition to the oral cavity, interviewing, nutritional counseling, computer aided dietary analysis, and its practice in the dental office. Writing Emphasis Course.

**3 Class Hours; Prerequisite:** DEN 102 Dental Hygiene II or permission of the instructor

**DEN 213 Public Health (3)**

Principles of public health and fundamentals of assessing, planning, implementing and evaluation of public health care with emphasis on community dental health. Laboratory experience emphasizes reading scientific literature, statistics community health education, and community health agencies.

**2 Class Hours, 2 Laboratory Hours; Prerequisite:** DEN 102 Dental Hygiene II

**DEN 214 Current Topics In Dental Hygiene (2)**

Topics relevant to contemporary practice of dental hygiene including career planning, ethics, jurisprudence identification and reporting child abuse and the hygienist's role in the practice of dental specialties. Students are required to observe dental specialty practices.

**2 Class Hours; Prerequisite:** DEN 201 Dental Hygiene III or permission of the instructor

**DEN 298/299 Independent Study — Fall/Spring (1-3)**

Advanced studies in Dental Hygiene conducted under the guidance of a Dental Hygiene instructor.

**Prerequisites:** DEN 101, 102 Dental Hygiene I and II and permission of Department Chairperson

**DIA 101 Nutrition (3)**

The social, cultural, psychological and physiological functions of food. Nutrition care throughout the life cycle. Special consideration given to modifications of the basic diet to meet the needs of the resident in health care facilities. Techniques of interviewing, medical ethics and documentation procedures of medical records.

**2 Class Hours, 4 Directed Practice; Prerequisite:** Employment. Also see pg. 39

**DIA 102 Institutional Food Preparation (3)**

Principles of food preparation, standardization of recipes, menu structure and planning. Servicing, merchandising and promotion of food items. Emphasis on sanitation and safety practices in food service departments.

**2 Class Hours, 4 Directed Practices; Prerequisite:** Employment. Also see pg. 39

**DIA 201 Food Management Systems (3)**

Introduction to the health field and its interrelationships. Control through specification, purchasing, inventory, cost analysis. Equipment maintenance and management safety practices are addressed.

**2 Class Hours, 4 Directed Practice; Prerequisite:** Employment. Also see pg. 39

**DIA 202 Personnel Management (3)**

Leadership and supervisory techniques. Concepts of management are addressed, including the principles of organization, evaluation, and the decision-making process. Implications of authority and responsibilities. Understanding and communications with workers and co-workers. Employee recruitment, training and evaluation. Morale and labor relations.

**2 Class Hours, 4 Directed Practice; Prerequisite:** Employment. Also see pg. 39

**DOT 100 Keyboarding (1)**

Development of basic skills in keying exact copy by touch for three minutes with a maximum of 3 errors on the IBM Personal Computer.

**3 Class Hours, 5-Week Course**



**DOT 103 Keyboarding (3)**

Development of basic keyboarding techniques and skill building activities in order to attain speed and accuracy in keying exact copy by touch for 5 minutes with a maximum of 5 errors. Preparation of letters memos, and manuscripts.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** For international students, ENG 107—English as a Second Language or permission of instructor

**DOT 104 Document Formatting (3)**

Advanced keyboarding with emphasis on creating documents for general, medical and legal offices.

**3 Class Hours; Prerequisite:** DOT 103 - Keyboarding or the equivalent

**DOT 105 Keyboarding Skill Development (1)**

Continued development of skills in keying exact copy by touch. Activities will be self-paced to allow for individual goals.

**3 Class Hours, 5-Week Course; Prerequisite:** DOT 100 Keyboarding or equivalent

**DOT 106 Development Keyboarding Production (1)**

Development of basic techniques in preparing letters, horizontal and vertical centering exercises, memorandums, tabulations, and manuscripts.

**3 Class Hours, 5-Week Course; Prerequisite:** DOT 105 Keyboarding Skill Development

**DOT 107 Keyboarding/Word Processing Applications Using Norton Textra Writer (3)**

Development of accuracy and text editing skills using the word processing program used to support Freshman writing.

**3 Class Hours**

**DOT 109 Business English (3)**

Designed to improve understanding of basic sentence structure, grammar, business vocabulary and punctuation as related to the business world. Practical application through exercises at the keyboard on rough draft copy.

**3 Class Hours; Prerequisite or corequisite:** DOT 103 Keyboarding or the equivalent

**DOT 110 Shorthand (3)**

Beginning course in Gregg Shorthand, Centennial System. Basic principles to promote the ability to read fluently from plates and notes. Longhand and keyboard transcription from shorthand notes dictated from unfamiliar material at a minimum rate of 40 words a minute.

**2 Class Hours, 3 Laboratory Hours; Prerequisite or Corequisite:** DOT 103 Keyboarding

**DOT 112 Speedwriting (3)**

Basic Speedwriting principles to promote the ability to read fluently from plates and notes. Longhand and keyboard transcription from shorthand notes dictated from unfamiliar material at a minimum of 40 words a minute.

**3 Class Hours, 2 Laboratory Hours; Prerequisite or Corequisite:** DOT 103 Keyboarding

**DOT 113 Shorthand/Speedwriting Transcription (3)**

Emphasis on Shorthand/Speedwriting skill building at a minimum rate of 60 words a minute. Integration of correct usage of principles of grammar, spelling, punctuation, capitalization, vocabulary, numbers, word division, words often confused.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** DOT 110 Shorthand or DOT 112 Speedwriting, DOT 103 Keyboarding, DOT 109 Basic Transcription

**DOT 115 Shorthand/Speedwriting Skill Development (1)**

Continued development of skills in reading and writing shorthand or speedwriting notes. Activities will be self-paced to allow for individual goals.

**3 Class Hours, 5-Week Course; Prerequisite:** Knowledge of basic shorthand or speedwriting

**DOT 120 Word Processing Applications (3)**

Development of speed, accuracy, and text editing skills using a full-featured word processing program.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** DOT 103 Keyboarding or ability to key exact copy at 36 NWPM by touch for 5 minutes with a maximum of 5 errors

**DOT 141 Word/Information Processing Concepts (3)**

Introductory course for the preparation of information processing specialists. Emphasis on terminology and technology of the automated workplace.

**3 Class Hours**

**DOT 143 Introduction to Word Processing (1)**

Learn how to use an IBM PC and a sophisticated word processing package to prepare simple letters, memos, and reports. Upon successful completion of the course you will be able to create, store, and print routine business and/or personal documents efficiently.

**3 Class Hours, 5 Week Course; Prerequisite:** DOT 100 - Keyboarding or equivalent

**DOT 145 Introduction to Desktop Publishing (1)**

Learn how to use an IBM-PC, a mouse, and PageMaker software to design, create, and print out a one-page flyer. You will combine both text and graphics in the creation of this publication. The planning and design phases will be emphasized, and the final output will be printed on a Laser printer.

**3 Class Hours, 5-Week Course**

**DOT 151 Business Communications (3)**

Development of desirable written and oral communication style. Review of basic writing mechanics. Composition of written business communications.

**3 Class Hours; Prerequisite for DOT majors:** DOT 103 Keyboarding

**DOT 215 Information Processing (3)**

Students are taught to prepare spreadsheets, a database and graphs using the functions of Lotus 1-2-3. Continuation of development of speed and accuracy.

**3 Class Hours; Prerequisite:** DOT 100 Keyboarding or equivalent

**DOT 220 Presentation Graphics (3)**

An introduction to the application of desktop publishing and computer graphics. The student will learn to design, edit, and produce high-quality communications using PageMaker and Harvard Graphics

**3 Class Hours; Prerequisite:** DOT 100 Keyboarding or the equivalent

**DOT 221 Introduction to Harvard Graphics (1)**

Learn to use simple text charts, data charts, speaker notes, handouts, and a screen show using a sophisticated graphics software package.

**3 Class Hours, 5 Week Course; Prerequisite:** DOT 100 Keyboarding or equivalent

**DOT 225 Introduction to the Internet (1)**

Learn to travel the information superhighway through the skills taught in this Introduction to the Internet. You will be taught to access the Internet, search for and retrieve information, and send E-mail messages.

**3 Class Hours, 5 Week Course; Prerequisite:** DOT 100 Keyboarding or equivalent

**DOT 231 Shorthand/Speedwriting Transcription Applications (3)**

Emphasis on increasing skill in transcribing dictated and recorded materials. Continuing development of knowledge of business vocabulary, grammar usage, punctuation, and spelling.

**2 Class Hours, 3 Laboratory Hours; Prerequisites:** DOT 113—Shorthand/Speedwriting Transcription or equivalent, DOT 120—Word Processing Applications, DOT 151—Business Communications

**DOT 236 Machine Transcription (3)**

Emphasis on increasing skill in transcribing recorded materials as applied to general, medical and legal offices. Continuing development of knowledge of business vocabulary, grammar usage, punctuation, and spelling.

**2 Class Hours, 3 Laboratory Hours; Prerequisites:** DOT 109—Basic Transcription and DOT 120—Word Processing Applications

**DOT 242 Administrative Procedures and Technologies (3)**

Final preparation for an office career through activities related to health and safety issues, time management, mail, reprographics, ergonomics, information communications systems, telephone systems, and protocol, travel, meeting, planning and conducting, banking and payroll.

**3 Class Hours; Prerequisite:** Departmental approval

**DOT 250 Office Administration (3)**

This course is designed to help students understand modern administrative practices of office management. Emphasis is placed on planning and organizing office operations, leadership and human relations in the office; familiarization with the budget process, and controlling office operations, including office systems, work measurement, and standards. Decision-making skills are developed through problem analysis techniques.

**3 Class Hours**

**DOT 262 Personal and Professional Development Seminar (3)**

Designed for any student who wishes to develop a personal and professional edge. Topics include interpersonal communications skills, organizational dynamics, personal, educational, and professional career goal planning, job campaign techniques, time management, and personal and professional factors associated with success.

**3 Class Hours**

**DOT 270 Internship (2)**

Career-related employment that complements academic preparation in the office technologies area. Interns receive on-the-job experience in a variety of office procedures and meet with coordinator as scheduled.

**Prerequisite:** Departmental approval

**DOT 280 Introduction to Computerized Financial Information Processing (1)**

Students will learn to utilize an IBM PC and selected software to process personal financial information in order to prepare a budget, checks and a check register, bank reconciliation statement, determine the savings of purchasing with cash, and compute and prepare simple tax forms.

**3 Class Hours, 5 Week Course; Prerequisite:** DOT 100 Keyboarding or equivalent

**DOT 299 Independent Study (1-4)**

Under the guidance of a faculty member, the student will undertake a study, project, or research involving an advanced concept or problem relating to her/his major field of study. Only one independent study course is allowed per semester.

**Prerequisite:** Approval of faculty member and department Chairperson



**ECE 100 Introduction to Education of Young Children (3)**

An overall view of early childhood education including various philosophies and methods, programming, scheduling. Focus on social, emotional and physical needs of young children and the importance of the "self concept" for both the child and the adult working with young children. Introduction to the College's Early Childhood program covering requirements, courses, and career information. A required number of observations in pre-schools, nurseries and day care centers in the area. Required of Early Childhood Majors.

**3 Class Hours**

**ECE 101 Introduction to Family Day Care (1)**

Introduction of principles of regulated family day care including preparing the home as a learning setting, activity planning and guidance of mixed age groups, small business management and parent/provider relationships.

**3 Class Hours - 5 Weeks**

**ECE 102 Introduction to Working in School Age Child Care (1)**

Developmental characteristics of 5-12 year olds, programming for that age in extra-school settings, preparing the environment for safety and learning, and appropriate guidance of school age children in groups.

**3 Class Hours - 5 Weeks**

**ECE 103 Introduction to Working With Special Needs Children (1)**

Overview of recognizing, understanding and helping children with special needs to be included in early childhood programs as well as dealing with parents and referral agencies.

**3 Class Hours - 5 Weeks**

**ECE 115 Music for Young Children (3)**

Basics of music theory, development of resources of songs and movements to be used in early childhood settings. Class participation is a vital part of this class.

**3 Class Hours**

**ECE 120 Curriculum Development (3)**

Methods and materials for planning developmentally appropriate curriculum for young children, including art, music, creative movement, language, mathematics, science, nutrition, manipulative play, dramatics and early literacy. Practice activities in local child care settings.

**3 Class Hours; Prerequisite: ECE 100 Introduction to Education of Young Children or Concurrent Enrollment**

**ECE 140 Art for Young Children (3)**

In-depth coverage of art education as it contributes to the pre-school child's emotional, physical and psychological growth. Needs of pre-schoolers in this area and ways to foster creativity and skill acquisition. Materials and methods appropriate for this age. A laboratory experience working pre-schoolers in art will be required.

**2 Class Hours, 2 Laboratory Hours**

**ECE 150 Motor Development (3)**

Designed to give the student an understanding of normal motor development and how it relates to cognitive and perceptual development. Students will develop curriculum in motor development for young children.

**3 Class Hours**

**ECE 175 Techniques of Observation and Evaluation (3)**

Develops skills and methods of observing young children in structured and unstructured situations. Covers ethics, interpretations of children's behavior in light of development. Implications of evaluations. Required of Early Childhood Majors.

**3 Class Hours**

**ECE 180 Child Health and Safety and Nutrition (3)**

Designed to help students become aware of techniques for promoting general health care and safety standards at children's centers.

**3 Class Hours**

**ECE 185 Child Guidance - Infants and Toddlers (1)**

Moral and social development is the basis for establishing and maintaining cooperative behaviors in infants and toddlers for persons caring for them in groups. Non-punitive, internal control strategies will be presented.

**3 Class Hours - 5 Weeks; Prerequisite: ECE 100 and PSY 110 or permission**

**ECE 186 Guidance of Preschoolers (1)**

Moral and social development is the basis for establishing and maintaining cooperative behavior in preschoolers for persons caring for them in groups. Non-punitive, internal control, problem-solving strategies will be presented.

**3 Class Hours - 5 Weeks; Prerequisite: ECE 100 and PSY 110 or permission**

**ECE 187 Child Guidance - Primary Age Children (1)**

Moral and social development is the basis for establishing and maintaining cooperative behaviors in school age children K - grade 3 for persons caring for them in groups. Non-punitive, internal control strategies will be presented.

**3 Class Hours - 5 Weeks; Prerequisite: ECE 100 and PSY 110 or permission**

**ECE 190 Infants, Toddlers and the Family (3)**

Developmental milestones of children under 3 years old are the basis for planning individualized activities and preparing quality environments, appropriate practices in centers and homes are examined with emphasis on sharing the caring relationships between parents and providers.

**3 Class Hours**

**ECE 200 Practicum I (4)**

Group seminar meets weekly to guide the student in the role of the teacher in the early childhood setting. Site placements are assigned for practical experience under supervision, working with young children for 12 weeks. Novice, experienced and employed students are observed by college supervisor.

**Prerequisite: 30 hours of counseled coursework including ECE 120 or approval of coordinator**

**ECE 201 Practicum II (4)**

Group seminar meets weekly to further develop professional practice. Site placements are assigned for practical experience under supervision, working with young children for 12 weeks. Novice, experienced and employed students are observed by college supervisor.

**Prerequisite: 30 hours of counseled coursework including ECE 120.**

**ECE 210 Special Needs Children in Early Childhood Programs (3)**

Identification and implications of state mandates for children with special needs. Explores the principles and practices of facilitating the learning of special needs children in group settings. Parents role in educational plan.

**3 Class Hours; Prerequisite: PSY 211 Child Development (Concurrent Enrollment Considered)**

**ECE 220 Issues and Innovations in Early Childhood Education (3)**

An overview and insight into various philosophies and materials of education for young children, including

Montessori, Piaget, open education (comparing English and American schools), affecting education, behavior modification. This course aims to develop the competency of the student through practical application.

**3 Class Hours; Prerequisite: ECE 100 Introduction to Education of Young Children**

**ECE 221 Multi-Cultural Perspectives (1)**

Methods of teaching and caring for children with unique cultural backgrounds, traditions, and practices. Helps to understand that since young children are increasingly aware of color, language, and gender differences, it is important to assist in building confident self-images that view differences with respect.

**3 Class Hours - 5 Weeks**

**ECE 222 Community Resources (1)**

Ways to find and utilize various community agencies, resources and programs that assist parents, children, and professional caregivers to obtain, integrate and use information, services, and benefits associated with day-care and pre-school centers.

**3 Class Hours - 5 Weeks**

**ECE 223 Discipline Techniques (1)**

Effective guidance and management methods used to develop acceptable behavior by children in the classroom or institutional setting.

**3 Class Hours - 5 Weeks**

**ECE 224 Pre-School Mathematics (1)**

Methods and materials used to present age-appropriate arithmetic and counting skills to pre-school children.

**3 Class Hours - 5 Weeks**

**ECE 225 Pre-Reading (1)**

Will focus on language behaviors and development of communication patterns upon which to foster the beginning of reading skills in pre-school children.

**3 Class Hours - 5 Weeks**

**ECE 226 Pre-School Science (1)**

Methods and materials used to present age appropriate science concepts to pre-school children.

**3 Class Hours - 5 Weeks**

**ECE 230 Working With Parents in Early Childhood Programs (3)**

Designed to introduce the need for the parent's involvement in the education of the young child. Benefits for teachers and parents which help or hinder their working together. Various aspects of working with parents, such as home visiting, group parent meetings, newsletters and written communications, parent conferences and the use of volunteers in the classroom.

**3 Class Hours**

**ECE 245 Social Development of Young Children (3)**

Explores the developmental, environmental and temperamental aspects of the socialization process. Topics include aggression, cooperation and sharing, moral development, peer interaction, sex-role development, communication in the classroom.

**3 Class Hours**

**ECE 250 Language in Early Childhood (3)**

A developmental study of language growth in young children and its influence on learning (cognitive abilities, social and behavioral concepts). Contemporary language theories and programs including a diagnostic approach to teaching language (communications skills, reading readiness and literature appreciation) in the pre-school. The student will be expected to spend a number of hours in a special project requiring observation of individual children and language arts program.

**3 Class Hours**



**ECE 255 Special Topics in ECE (1-3)**

Specific topics are based on need of ECE students and/or community. Provides a forum for EC professionals to share their unique knowledge and skills with students. Recent topics have included: Multi-cultured perspectives, community resources, Math for Young Children, pre-reading, and Discipline Techniques.

**1-3 Class Hours; Prerequisite:** ECE 100 or permission of the department

**ECE 260 Management and Administration of Early Childhood Programs (3)**

Overview of Early Childhood administration to include: Principles of management like planning, organizing, directing, and evaluating as uniquely applied to regular and special programs. Staff development, financial, and personnel policies relating to operation and administration of various types of centers.

**3 Class Hours; Prerequisite:** ECE 100

**ECE 299 Independent Study in Early Childhood (1-3)**

An individual student project in child care beyond the scope of requirements offered by the department. Under the direction of a faculty member and approved by the program coordinator and department chairperson and Dean. No more than three credits may be acquired toward the Early Childhood degree in independent study projects.

**1-3 Class Hours; Prerequisite:** 6 Semester hours in Early Childhood courses

**ECO 110 Introduction to Micro-Economics (3)**

Supply, demand and the market system as they relate to contemporary economic problems including poverty, energy, and the environment. The allocation of resources under conditions of competition and various degrees of monopoly. Rationale behind anti-trust laws and other economic systems.

**3 Class Hours**

**ECO 111 Introduction to Macro-Economics (3)**

Causes of unemployment and inflation and the government's efforts to control them. Problems of economic growth as they relate to our economy and the other countries, developed and underdeveloped. International trade and finance problems.

**3 Class Hours**

**ECO 299 Independent Study – Economics (1-3)**

An individual student project in economics which is beyond the scope or requirements of the courses offered by the department, conducted under the direction of a faculty member and approved by the department chairperson.

**Prerequisite:** 3 Semester Hours in Economics

**EET 100 Introduction to Electrical Engineering Technology (1/2)**

Introduction to Electrical Engineering Technology, career opportunities, transfer opportunities, study skills and college services. An association with industry is established through field trips and panel discussions involving industry representatives. Reasonable proficiency in the use of the hand-held calculator is developed.

**1 Class Hour**

**EET 110 Introduction to Electricity (3)**

Basic electrical circuit elements including voltage sources, light bulbs, resistors, heater elements. Simple series, parallel, and series-parallel resistive circuits. Introduction to complex circuit analysis. Use of basic meters to measure voltage, current, and resistance. An introduction to the oscilloscope. Reading charts and tables. Use of laboratory equipment to measure current,

voltage, and resistance in a multiple load circuit with emphasis on proper data recording.

**3 Class Hours**

**†EET 111 Electrical Construction Laboratory I (2)**

Basic knowledge about today's electrical equipment. Experience in the installation, fabrication and maintenance of electrical equipment by means of "hands on" approach. Shop safety and the National Electrical Code. Basic residential and commercial wiring procedures, basic measuring techniques, fundamentals of basic machine operations.

**1 Class Hour, 3 Laboratory Hours**

**EET 112 Electrical Construction Laboratory II (1)**

Advanced wiring methods, fractional horsepower motor and appliance troubleshooting, introduction to residential and commercial lighting and power layout design.

**3 Laboratory Hours; Prerequisite:** EET 111 Electrical Construction Laboratory I

**EET 115 Introduction to Digital Logic (3)**

An introduction to computer digital logic including number systems, logic gates, flip flops, counters, memories, and the basic computer.

**3 Class Hours**

**†EET 121 Electrical Circuits & Laboratory (4, 1)**

Fundamentals of electrical circuits and application of circuit laws, theorems and measuring techniques to both DC and AC single and polyphase circuits.

**4 Class Hours, 3 Laboratory Hours; Prerequisite or Corequisite:** MAT 139 and MAT 140 or equivalent

**\*EET 125 Circuits I (3)**

DC circuits, including loop and nodal analysis, superposition, Thevenin's and Norton's theorems, RL and RC time constants.

**2 Class Hours, 2 Laboratory Hours; Prerequisite or Corequisite:** MAT 139 Algebra or equivalent

**\*EET 126 Circuits II (3)**

A continuation of the study of circuits concepts related to single- and three-phase alternating current. Resonance, network analysis, power.

**2 Class Hours, 2 Laboratory Hours; Prerequisite or Corequisite:** MAT 140 Trigonometry or equivalent and EET 125 Circuits I

**EET 130 Engineering Drawing (1)**

Principles of projection. Development of drafting skills, lettering and proper line construction. Dimensioning and tolerancing, with an emphasis on shop processes. Use of auxiliary views and sectioning. Preparation of assembly drawings, materials lists, schematic and wiring diagrams. To introduce the power and versatility of a computer aided design (CAD) program.

**3 Laboratory Hours**

**†EET 150W Electronic Devices & Laboratory (4, 1)**

A first course in Electronics introducing the active devices fundamental to the field. Introduction of semiconductor diodes, bipolar and field effect transistors, thyristors, optoelectronic devices, operational amplifiers, and microprocessors. Design and analysis of representative circuits based on these building blocks. Competency in a scientific computer language is required and is applied to generate software for design and analysis of related circuits.

**4 Class Hours, 3 Laboratory Hours; Prerequisites:** MAT 161 Pre-calculus and CST 141 Scientific Computer Programming and EET 121 Electrical Circuits & Laboratory

**EET 162 Computer Aided Network Analysis (3)**

Computer analysis of complex electric and electronic networks by application of network theorems and application of software as needed. Use of the C programming

language to display the response of two port networks. Use of the computer programming to apply matrix methods to the analysis of complex circuits and the solution of network problems.

**3 Class Hours; Prerequisites:** CST 141 Scientific Computer Programming and EET 121 Electrical Circuits & Laboratory and MAT 161 Pre-calculus

**†EET 181 Installation and Maintenance of Electrical Motors (2)**

Theory, operation and application of electrical machines and control systems as related to industry. Installation, maintenance and troubleshooting of electrical motors and control systems will be emphasized.

**1 Class Hour, 2 Laboratory Hours**

**†EET 183 Applied Electricity (3)**

Practical applications of electrical circuits and machines. Topics include AC and DC circuits, machines and controllers, and single- and three-phase circuits and transformers. Laboratory work includes demonstration of basic electrical concepts using measuring instruments such as digital multimeters, oscilloscopes, function generators, counters, wattmeters and bridges.

**2 Class Hours, 3 Laboratory Hours; Prerequisite or Corequisite:** MAT 139 and MAT 140 or equivalent and PHY 162 Physics II

**†EET 186 Electronics (3)**

Practical applications of electronic concepts as applied to solid state devices, amplifiers, power supplies, oscillators, timers, flip flops and basic logic devices and microprocessors. Laboratory work includes practical applications of concepts and operation of common electronic instruments such as oscilloscope, curve tracer, function generator and counter.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** EET 183 Applied Electricity

**EET 201/202 Senior Seminar (0, 0)**

A weekly lecture series intended to make the student aware of the changing elements of the Electrical, Electronic and Computer industry and help the student focus on areas of concern presented by industry experts.

Where appropriate, emphasis will be placed on the responsibility by technologists to society as a whole in the area of ethical and moral values. Topics may include Quality Assurance, Ethics in Engineering, Artificial Intelligence, Telecommunications, Robotics, Power Engineering, Modeling and Simulation, CIM, Interpersonal Communications, Statistics.

**1 Class Hour; Prerequisites:** ENG 110 Written Expression and MAT 161 Pre-calculus

**EET 230 Electronic Design and Fabrication (1)**

Selection, package design and construction of an electronic project and preparation of related drawings using computer aided design. Use of various manufacturing processes to fabricate the project. Use of industrial standard drafting practices to properly describe the operations. Chassis layout, printed circuit board design, exposure, and machining, wiring, soldering and enclosure fabrication are required.

**3 Laboratory Hours; Prerequisites:** EET 112 Electrical Construction Laboratory II and EET 130 Engineering Drawing and EET 150W Electronic Devices & Laboratory

**\*EET 235 Electrical and Electronics Drawing (2)**

Graphic representation of circuitry related to the electrical and electronics fields. Use of industrial standards and symbolism to draw electronic schematic and wiring diagrams, printed circuit layout and electronics assemblies. Use of various computer software in the production of drawings.

**1 Class Hour, 2 Laboratory Hours; Prerequisites:** MET 114 Mechanical Drawing and EET 255 Electronics I



**\*†EET 245 Energy Conversions and Control Systems (4)**

DC and AC electrical machines theory, applications, and control. Single-phase and polyphase power transformers and rectifiers. Application of industrial control systems.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** EET 126 Circuits II

**†EET 247W Energy Conversions & Laboratory Elective (3, 1)**

Theory, operation, and application of DC and AC motors, generators and their control. Theory and application of single and polyphase transformers, power generation systems, and power transmission. Programmable controller applications. Writing Emphasis Course. **3 Class Hours, 3 Laboratory Hours (choose 1 of 3 electives); Prerequisite:** EET 150W Electronic Devices & Laboratory

**EET 247-L01 Power Systems Laboratory (1)**

The Power Systems Laboratory places a major emphasis on three-phase power systems, alternator regulation, parallel operation of alternators, power factor correction and computer simulations for controlling an electrical power grid. A minor emphasis is placed on motor starters and programmable controllers.

**3 Laboratory Hours; Prerequisite:** EET 150W Electronic Devices & Laboratory

**EET 247-L02 Programmable Controllers Laboratory (1)**

The Programmable Controllers Laboratory places a major emphasis on motor starters and controllers, programmable controller (PLC) hardware and software, interfacing programmable controllers to the motor-generator stations, PLC variable speed control of induction motors and PLC data communications through a local area network. A minor emphasis is placed on power systems. **3 Laboratory Hours; Prerequisite:** EET 150W Electronic Devices & Laboratory

**EET 247-L03 Energy Conversions Laboratory (1)**

The Energy Conversions Laboratory places an equal emphasis on power systems and programmable controllers.

**3 Laboratory Hours; Prerequisite:** EET 150W Electronic Devices & Laboratory

**†EET 251 Electronic Circuitry and Laboratory (3, 1)**

A second course in Electronics including semiconductor physics that incorporates the devices introduced in EET 150W Electronic Devices into representative circuits of moderate complexity. These include multi-stage amplifiers, instrument and transducer amplifiers, op-amp active filters and other related data acquisition circuits. Practical considerations include heat sinking, noise, frequency effects and appropriate device selection. A scientific computer language and the application software are used to design and analyze multi-stage amplifiers and active filter circuits.

**3 Class Hours, 3 Laboratory Hours; Prerequisite:** EET 150W Electronic Devices and Laboratory

**†EET 252 Electronic Systems & Laboratory (3, 1)**

A third course in Electronics that uses the circuit concepts used in EET 251 Electronic Circuitry to develop larger systems currently used in the electronics field. These include transducers, interface and data acquisition systems, switchmode power supplies, telecommunications, phase locked loops, satellite and television and communication systems, large signal amplifiers, sinusoidal oscillators and multivibrators. Emphasis is placed on interface between the analog and digital world. The computer used to aid in design and debug of systems.

**3 Class Hours, 3 Laboratory Hours; Prerequisite:** EET 251 Electronic Circuitry & Laboratory

**\*†EET 255 Electronics I (4)**

A first course in Electronics introducing the devices fundamental to the field. Introduction of semiconductor diodes, bipolar and field effect transistors, SCR's, TRIACS, DIACS op-amps. Design and analyze representative circuits based on these building blocks.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** EET 126 Circuits II

**\*†EET 256 Electronics II (4)**

A second course in Electronics that incorporates the devices introduced in EET 255 Electronics I into representative circuits of moderate complexity. These include multi-stage amplifiers, op-amp active filters, and other related data acquisition circuits. Practical considerations including heat sinking, noise, electromagnetic interference, and appropriate device selection.

**3 Class Hours, 2 Laboratory Hours; Prerequisites:** EET 255 Electronics I and CST 122 Scientific Computer Programming - FORTRAN

**\*†EET 257 Electronics III (4)**

A third course in Electronics that uses the circuit concepts used in EET 256 Electronics II to develop larger systems currently used in the electronics field. These include switchmode power supplies, phase locked loops, communication systems, and interfacing systems. Computer used to aid in design and debug of systems.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** EET 256 Electronics II

**†EET 267 Digital Electronics and Microprocessors I & Laboratory (3, 1)**

Study of number systems, logic gates (TTL/CMOS), counters, shift registers, codes, types of memories, Boolean algebra, reduction theorems, and black box design applied to data transmission, computer arithmetic, and microprocessor operations. Microprocessor (8085, 8086 and 68000) assembly language programming using assemblers, disassemblers, monitors, loaders, logic analyzers and other tools related to industrial applications of microcomputers. Internal operation of a computer from a block diagram approach. Applications include software scrolling, IC testing, traffic controllers, display systems, and math operations. Appropriate laboratory exercises provide hands-on experience in three areas — digital circuitry, microprocessor assembly language, and microprocessor interface hardware.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** EET 150W Electronic Devices and Laboratory or EET 255 Electronics I and CST 122 Scientific Computer Programming-FORTRAN or CST 141 Scientific Computer Programming

**\*†EET 268 Digital Electronics and Microprocessors II & Laboratory (4)**

Use of modern microprocessors (80x86 and 68000) in real time control applications such as testing complex circuitry using microcomputers, display systems, speech synthesis, EPROM and EEPROM programming, ultrasonic techniques, data manipulation, multiplexing, video games, satellite receivers, encryption techniques, disk controllers, array processors, error detection and correction, synchronous logic circuits, and other modern topics in the microcomputer world. Use of development systems (UNIX based), logic analyzers, and high level languages. Students wire-wrap their own 68000-based single board computer and develop the software monitor program. Assembly language skills learned in EET 267 Digital Electronics and Microprocessors I are tuned and further software development takes place.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** EET 267 Digital Electronics and Microprocessors I and Laboratory and instructor approval

**†EET 270 Control Systems & Laboratory (3, 1)**

Theory, operation, design and implementation of open and closed loop control systems, including mathematical modeling and stability prediction. Theory and applications of both analog and digital control system input/output. Introduction to robotics and process control techniques.

**3 Class Hours, 3 Laboratory Hours; Prerequisites:** EET 247W Energy Conversions & Laboratory and EET 267 Digital Electronics and Microprocessors I & Laboratory

**EET 271 Communication Techniques (1)**

The study of different forms of electronic communications, including microwaves, satellites, telephone systems, fiber optics and digital communication techniques. Examination of microwave devices, satellite receiver systems and signals, telephone circuits, pulse modulation techniques, time and frequency division multiplexing, modems, fiber optic components and local area networks.

**3 Laboratory Hours; Prerequisite:** EET 251 Electronic Circuitry & Laboratory; **Corequisite:** EET 252 Electronic Systems & Laboratory

**†EET 272 Microcontroller Fundamentals & Laboratory (3, 1)**

Theory of open loop and closed loop control systems, including responses, stability and mathematical modeling. Theory and application of the 8051 microcontroller family hardware and software, including programming timers, interrupts, serial communications and multi-tasking operations. Digital motion control systems and robotic applications.

**3 Class Hours, 3 Laboratory Hours; Prerequisites:** EET 247W Energy Conversions & Laboratory and EET 267 Digital Electronics and Microprocessors I & Laboratory

**EET 273 Computer Design Lab (1)**

Detailed coverage of personal computer hardware with emphasis on memory and I/O interfacing and operation, interrupts and DOS function calls. Theory of operation of floppy and hard disks. Use of the 8088 macro-assembler, linker and debugger to develop control software for the personal computer. Hardware and software applications, including memory-mapped video, serial and parallel data communication and 8087 co-processor utilization. Detailed coverage of MS-DOS, C and Windows. **3 Laboratory Hours; Prerequisite:** EET 267 Digital Electronics and Microprocessors I & Laboratory

**†EET 274 Robotic Applications & Laboratory (3, 1)**

Robotic systems, applications and safety. Industrial robot programming. Robot sensors, actuators and intelligence. Factory automation and computer integrated manufacturing. Theory of open loop and closed loop motion control systems, including responses, stability and mathematical modeling.

**3 Class Hours, 3 Laboratory Hours; Prerequisites:** EET 247 Energy Conversions & Laboratory and EET 267 Digital Electronics and Microprocessors I & Laboratory

•All asterisked (\*) courses are taught evenings only and when enrollment permits.

•All (†) courses carry separate grades for lecture and laboratory.

•All (‡) courses are combined lecture-laboratory courses and final grade depends on successful completion of



**EET 275 Machine Vision Lab (1)**

Detailed coverage of video image digitization, processing and enhancement. Utilization of the frame-grabber for capture, display and analysis of video images. Use of low- and high-pass filtering, histogram equalization and false-coloring for image enhancement. Study of the effect of pixel size and z-axis resolution on image quality. Theory and implementation of machine vision applications, including recognition of small parts, positioning and inspection.

**3 Laboratory Hours; Prerequisite:** EET 267 Digital Electronics and Microprocessors I & Laboratory

**EET 299 Independent Study (2-4)**

The student undertakes an independent project in his specialty under the guidance of a faculty member. Only one independent study course allowed per semester. Consideration may be given a project involving a job-related assignment. Any independent study project is based on instructor availability.

**Prerequisite:** Department approval

**EGR 090 Fundamentals of Engineering (0)**

A review of the basic tools necessary for successful entry into an engineering science program. Topics in Physics, Mathematics, and Engineering with emphasis on preparation for required courses. Calculator and computer fundamentals. Communication skill development with computers and report writing. Required of all Engineering Science students who lack the prerequisite to take MAT 181 Calculus I with Analytic Geometry and/or PHY 181 Engineering Physics I.

**1 Class Hour, 2 Laboratory Hours; Prerequisites:** MAT 099 Elementary Algebra, PHY 090 Preparatory Physics

**EGR 100, 200 Orientation (0)**

Guest speakers discuss common problems engineering students encounter. Representatives from transfer schools introduce their respective institutions to students. Common exams will be scheduled during these sessions.

**2 Class Hours**

**EGR 150 Introduction to Engineering and Design Graphics (2)**

Fundamental course in descriptive geometry and personal computer usage. Topics include graphing, orthographic and auxiliary views, true-length, and relationships between points, lines and planes. Students will be expected to gain a facility with word processing, spreadsheet use and computer graphics (using CADKEY). Use of spreadsheets to solve engineering applications in statistics, least squares regression, and correlation coefficient. Weekly seminars on topics related to the Engineering profession.

**1 Class Hour, 3 Laboratory Hours; Corequisites:** MAT 181 Calculus I, PHY 181 Physics I, EGR 100 Orientation

**EGR 151 Applications in Engineering (3)**

Applications of computers to the solution of engineering problems. Programming in Pascal and FORTRAN and spreadsheets will be used to solve problems in financial functions, heat transfer, statistics, numerical methods and data analysis. Matrix methods and quality assurance applications will also be covered. Hardware will include both a VAX mainframe and a personal computer.

**2 Class Hours, 2 Laboratory Hours; Prerequisite:** EGR 150 Engineering Graphics; **Corequisite:** EGR 100 Orientation and MAT 181 Calculus I with Analytic Geometry

**EGR 281 Mechanics (Statics) (3)**

Fundamental concepts of the statics of rigid bodies developed by using a vector analysis approach. Force systems, centroids and centers of gravity, analysis of structures, shear and bending moments, friction and moments of inertia.

**3 Class Hours; Prerequisite:** 1 year of Calculus and PHY 181 Physics I; **Corequisite:** EGR 200 Orientation

**EGR 282 Mechanics (Dynamics) (3)**

Vector analysis approach to kinematics and kinetics of particles, systems of particles, kinematics and kinetics of rigid bodies, forces, mass, acceleration, impulse, momentum, work and energy techniques.

**3 Class Hours; Prerequisite:** EGR 281 Mechanics (Statics); **Corequisite:** EGR 200 Orientation

**EGR 283 Strength of Materials (3)**

Elementary analysis of the strength and deformation of deformable bodies. Topics include stress-strain, torsion, bending, Mohr's circle, flexure, energy methods, and columns.

**3 Class Hours; Prerequisite:** EGR 281 Mechanics (Statics); **Corequisite:** EGR 200 Orientation

**EGR 284 Materials Science (3)**

Atomic model, bonding, lattice concept, crystal types, imperfections, stress and temperature effects, phase diagrams, alloys, ceramics, polymers, composites, corrosion, electrical and magnetic properties materials

**3 Class Hours; Prerequisite:** PHY 182 Engineering Physics II and CHM 146 Chemistry; **Corequisite:** EGR 200 Orientation

**EGR 285 Electrical and Electronic Circuits (3)**

Units and definitions; charge, current, voltage, power, energy. Ohm's Law, active and passive elements, independent and dependent sources. Resistance, Kirchhoff's Laws, network reduction. Nodal and mesh analysis techniques, source transformation, superposition. Thevenin's and Norton's theorems, maximum power transfer. Capacitance and inductance; natural, forced, and complete response of switched R-L, R-C, and R-L-C circuits. A.C. sinusoidal steady state analysis. Ideal and practical operational amplifier circuits. Frequency response of parallel and series R-L-C circuits and filter networks. Computer aided circuit analysis using PSPICE.

**3 Class Hours; Prerequisite:** 1 year of Calculus and PHY 182 Engineering Physics II; **Corequisite:** EGR 200 Orientation

**EGR 287 Engineering Science Laboratory I (1)**

Experiments in electrical and electronic circuits, heat, light, atomic and nuclear physics. Program writing in Pascal to control instruments on a GPIB bus.

**3 Laboratory Hours; Prerequisite:** 1 year of Calculus and PHY 182 Engineering Physics II; **Corequisite:** EGR 285 Electrical and Electronic Circuits and PHY 281 Engineering Physics III

**EGR 288 Engineering Science Laboratory II (1)**

Experimentation in digital logic and microprocessors, software and hardware interfacing using a 68HC11. Design project required using a stepper motor and a microprocessor.

**3 Laboratory Hours; Prerequisite:** PHY 182 Engineering Physics II; **Corequisite:** EGR 289 Introduction to Microprocessors and EGR 200 Orientation

**EGR 289 Introduction to Microprocessors (2)**

Introduction to microprocessors with digital logic, machine and assembly language programming, serial and parallel Input/Output, hardware interfacing with switches, lights, printers, and other computers. A/D, D/A, mixed language programming, assembly with Pascal.

**2 Lecture Hours; Prerequisite:** PHY 182 Engineering Physics II; **Corequisite:** EGR 288 Engineering Science Laboratory II and EGR 200 Orientation

**EGR 299 Independent Project (2-4)**

The student undertakes an independent project in his/her specialty under the guidance of a faculty member. Only one independent study course allowed per semester. Special consideration will be given to design projects.

**Prerequisite:** Department approval

**ENG 090 Basic Language Skills (0\*)**

Writing workshops designed to improve a student's mastery of composition skills, including patterns of sentence structure and the recognition and correction of common errors in grammar and usage. (This course not applicable to any degree.)

**4 Class Hours - 4 Credit Equivalents; Prerequisite:** Placement Test

**ENG 106 English as a Second Language, Intermediate II (3)**

Advanced study of the English language for international students. Emphasis on the development of basic English compositional skills. Continued practice in listening, reading, and speaking.

**3 Class Hours; Prerequisite:** ESL 113 English as a Second Language, Series or equivalent

**ENG 107 English as a Second Language, Advanced I (3)**

Expanded study and practice in the composition of ideas and information for international students. Sentence and paragraph development, unity, coherence, style. Writing workshops for intensive practice in the formation of standard and idiomatic English. Investigation of the nature of language and various aspects of communication to stimulate critical thinking.

**3 Class Hours (Equivalent to ENG 110 for foreign students); Prerequisite:** ENG 106 English as a Second Language, Intermediate II or equivalent

**ENG 108 English as a Second Language, Advanced II (3)**

Further study and practice in critical and evaluative thinking and writing for international students, based upon analysis and exposure to prose as well as major types of imaginative literature. Additional practice and familiarization with research procedures. Writing workshops and individual conferences to guide the international student through writing assignments.

**3 Class Hours; Prerequisite:** ENG 107 English as a Second Language, Advanced I

**ENG 110 Written Expression (3)**

Study and practice in the composition of ideas and information. Sentence and paragraph development, unity, coherence, style. Nature of language, including investigation of various aspects of communication to stimulate critical thinking.

**3 Class Hours; Prerequisite:** Placement test or ENG 090 Basic Language Skills

**ENG 110S Written Expression (4\*)**

Same as ENG 110 Written Expression with one additional hour of supplemental help.

**4 Class Hours; Prerequisite:** Placement Test or ENG 090 Basic Language Skills

\*3 degree credits plus 1 "credit equivalent"

**ENG 150 Technical Writing (3)**

This introductory course in technical communication offers a practical approach for writing and speaking effectively in professional, technical environments. The course emphasizes analytical methods for understanding and fulfilling the communicational needs of one's audience and gives students opportunity to practice and apply these communication techniques. (This course is for students in Engineering Technology programs.)

**3 Class Hours; Prerequisite:** ENG 110 or 110S Written Expression

• All asterisked (\*) courses are taught evenings only and when enrollment permits.

• All (†) courses carry separate grades for lecture and laboratory.

• All (\$) courses are combined lecture-laboratory courses and final grade depends on successful completion of both parts.



**ENG 163 Reporting (3)**

An introduction to the basics of News Reporting for print journalism. Student newspaper used for workshop and actual publication.

**3 Class Hours; Prerequisite:** ENG 110 or 110S Written Expression

**ENG 168 News Editing (3)**

The basics of editing, headline writing, layout, and design for print journalism. Student publication used for hands-on experience.

**3 Class Hours; Prerequisite:** ENG 163 Reporting or ENG 110 or ENG 110S Written Expression plus permission of instructor

**ENG 170 Creative Writing (3)**

Designed to provide students interested in imaginative writing with the opportunity to investigate concepts and to practice techniques implicit in prose, poetry and drama. Class discussion, workshops and personal conferences with the instructor.

**3 Class Hours; Prerequisite:** ENG 110 or 110S Written Expression

**ENG 175 Creative Writing – Publication (4)**

Designed to provide students interested in imaginative writing with the opportunity to investigate concepts and to practice techniques implicit in prose, poetry, and drama. Class discussion, workshops and personal conferences with the instructor, writing, evaluating and arranging material for a campus literary journal.

**4 Class Hours; Prerequisite:** ENG 110 or 110S Written Expression

**ENG 210 Advanced Writing (3)**

An intensive course in writing which extends the composing and critiquing skills of students who have mastered the basic skills of written expression. Emphasis on experimental techniques such as workshoping, peer tutoring, and word processing. Provides students with experience in collaborative techniques for improving their own writing and with techniques for tutoring beginning writers. Course requires peer tutoring in the Writing Center.

**3 Class Hours; Prerequisite:** English 110 or 110S Written Expression

**ENG 220 Communicating About Ideas and Values (3)**

Critical analysis of issues and moral problems affecting all thinking adults. Selected readings organized around broad themes. Required writing assignments and oral communication. Required of most degree students.

**3 Class Hours; Prerequisite:** ENG 110 or ENG 110S Written Expression and completion of at least one but preferably two Writing Emphasis ("W") courses

**ENG 299 Independent Study: English (3)**

An individual student project concerned with advanced work in a specific area of language or literature. Conducted under the direction of a faculty, independent study is concerned with material beyond the scope and depth of the ordinary course.

**Prerequisite:** One semester of college level work including ENG 110 or 110S Written Expression

**ESL 003 English as a Second Language, Elementary Grammar (4)**

Introduction of basic English grammar, both oral and written, for non-native speakers. Curriculum will include study of basic verb tenses, noun categories, and basic affirmative, negative, and interrogative sentence patterns. The material will reinforce what is taught in ESL 004 and 005. Taken together these courses are referred to as the ESL 003 Series. (This course is not acceptable for credits toward a degree.)

**4 Class Hours, 2 Laboratory Hours; Prerequisite:** Diagnostic Test

**ESL 004 English as a Second Language, Elementary Oral/Aural Skills (4)**

A course for students who speak little or no English. The sounds of English are presented systematically and language laboratory practice is required. Ear training is begun and strengthened through work in the listening laboratory. Students are taught communicative skills from the outset, and the emphasis is on speaking and being understood. (This course is not acceptable for credits toward a degree.)

**4 Class Hours, 2 Laboratory Hours; Prerequisite:** Diagnostic Test

**ESL 005 English as a Second Language, Elementary Reading Skills (4)**

For non-natives who had little exposure to written English. Basic sentence structure and vocabulary will be studied in order to improve student's comprehension, from simplified reading texts to those of increasing complexity. Writing skills, simple sentence structures, and organization skills are also stressed. (This course is not acceptable for credits toward a degree.)

**4 Class Hours, 2 Laboratory Hours; Prerequisite:** Diagnostic Test

**ESL 102 English as a Second Language, Basic Writing Skills (5)**

Introduction to the basic rhetorical/sentence patterns of English and their usage, organizational and developmental writing skills. Focus on the expression of ideas/concepts and their presentation in simple and complex sentence form, proofreading and editing skills, note taking, outlining and computer assisted instruction. (This course is not acceptable for credits toward a degree.)

**4 Class Hours, 3 Laboratory Hours; Prerequisite:** Diagnostic Test

**ESL 103 English as a Second Language, Grammar Review (5)**

Intensive review of pre-intermediate levels of the English language for international students. Emphasis on listening, reading, speaking and some aspects of writing. Audio-lingual laboratory. (This course is not acceptable for credits toward a degree.)

**4 Class Hours, 2 Laboratory Hours**

**ESL 104 English as a Second Language, Basic Speech (4)**

To provide international students with practice, articulation and vocabulary needed to increase self-confidence in English conversation, discussion in the classroom and other daily situations. Audio-lingual laboratory. (This course is not acceptable toward a degree.)

**3 Class Hours, 2 Laboratory Hours**

**ESL 105 English as a Second Language, Basic Reading (4)**

Review of English sound-symbol correspondence, utilization of brief recombinations of variations of narratives and dialogues, and acquisition of simple reading techniques through exposure to uncomplicated reading selections. Vocabulary and reading comprehensive development, audio-lingual practice — active, passive, comparative. Audio-lingual laboratory. (This course is not acceptable for credits toward a degree.)

**3 Class Hours, 2 Laboratory Hours**

**ESL 113 English as a Second Language, Intermediate Composition (4)**

Study of the English language for international students with listening, reading, speaking, writing skills on the intermediate level. Language workshops emphasizing grammar, syntax, vocabulary and composition. Audio-lingual laboratory. (This course is not acceptable for credits toward a degree.)

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** ESL 103 English as a Second Language, Grammar Review or equivalent

**ESL 114 English as a Second Language, Intermediate Speech (4)**

Designed for international students emphasizing free and controlled conversation and discussion. Continues practice in articulation, phrasing and vocabulary building. Audio-lingual laboratory. (This course is not acceptable for credits toward a degree.)

**3 Class Hours, 2 Laboratory Hours; Prerequisites:** ESL 104 English as a Second Language, Basic Speech or equivalent

**ESL 115 English as a Second Language, Intermediate Reading (4)**

Study of lexical, grammatical, and social-cultural meaning through intensive and extensive reading. Establishment of reading fluency and comprehension. Direct and audio-lingual practice with selected text and independence in English. Continues development of vocabulary and reading comprehension. Direct and audio-lingual practice with selected texts and exercises. Audio-lingual laboratory. (This course is not acceptable for credits toward a degree.)

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** ESL 105 English as a Second Language, Basic Speech or equivalent

**FRE 101, 102 Beginning French (4, 4)**

Basic principles of grammar and syntax. Emphasis on oral practice in classroom. Reading and discussion of cultural texts.

**4 Class Hours; Prerequisite:** FRE 101 Beginning French for FRE 102

**FRE 201, 202 Intermediate French I and French II (3)**

Intensive review of grammar and syntax and oral practice in classroom. Reading and discussion of works selected by the instructor.

**3 Class Hours; Prerequisite:** FRE 102 Beginning French for FRE 201

**\*FRS 101 Fire Prevention and Protection (3)**

Methods, policies and procedures relative to establishing and operating appropriate fire prevention and protection programs.

**3 Class Hours**

**\*FRS 103 Fire Fighting Tactics and Strategy (3)**

Focus on pre-planning and the development of fire fighting tactics appropriate for a wide variety of hazards. Review of basic information and some local conditions. The case study method is used to develop plans and tactics relating to the student's own department.

**3 Class Hours**

**\*FRS 105 Arson Investigation (3)**

Fire investigations and arson. Responsibilities of the arson investigator, tools of the investigator, photography, electronic devices, laws pertaining to arson, motives and tools of the arsonist, courtroom procedures. A field experience will be included.

**3 Class Hours**



**\*FRS 107 Legal Aspects of the Fire Service (3)**

Laws and regulations as they pertain to the fire service and its personnel. Legal terminology necessary for the interpretation of pertinent laws and decisions. Legal status of the fire fighter, as well as fire fighter's rights, duties and liabilities. Responsibilities and powers of the service in enforcement of ordinances and codes.  
**3 Class Hours; Writing Emphasis Course**

**\*FRS 108 Building Construction for Fire Science (3)**

Fire fighters are confronted with many unknown factors at the fire ground. Among these is the unknown structural stability of the buildings they must enter. Basic principles of building construction and design with emphasis focused on fire protection concerns. Building materials included.  
**3 Class Hours**

**\*FRS 110 Computers in the Fire Service (3)**

Introductory concepts of micro-computer use in Fire Science settings. Software packages, hardware and software purchasing relating to Fire Service usage, word processing, data base management and spreadsheet application to student generated problems.  
**3 Class Hours**

**\*FRS 200 Hazardous Materials (3)**

Chemicals and chemical processes most closely involved in fire protection and fire fighting. Use, storage, transportation and disposal of hazardous materials with emphasis on flammable liquids, flammable solids, oxidizing materials, corrosive liquids, compressed gases. A writing emphasis "W" course.  
**3 Class Hours**

**\*FRS 201 Fire Service Hydraulics (3)**

Application of the laws of mathematics and physics to properties of fluid states, force pressure and flow velocities. Emphasis on applying principles of hydraulics to fire fighting problems.  
**3 Class Hours; Prerequisite: MAT 092 or equivalent**

**FRS 204 Protection and Suppression Systems (3)**

Design, installation, operation, and trouble shooting of various systems. Extinguishers, alarms, sprinkler systems, chemical approaches, and Halon systems. Projects and field trip included.  
**3 Class Hours**

**\*FRS 205 Fire Department Administration (3)**

Organization of the fire departments with emphasis on personnel management, distribution of equipment, maintenance of records, communications, data collection and community relations. ISO Grading Schedule.  
**3 Class Hours**

**FRS 213 Advanced Tactics and Strategy (3)**

Methods and operational procedures of fire fighting from a management and direction perspective. How conditions and situations affect tactics, miscellaneous special problems; ventilation, and post-fire analysis and evaluation.  
**3 Class Hours**

**FRS 215 Codes and Enforcement (3)**

An introductory course in building codes and enforcement procedures. Topics include classifications, inspections, handicap requirements, fire and safety equipment, public relations, laws and regulations, municipal requirements. Students will do projects, planned reviews given certain scenarios.  
**3 Class Hours**

**FRS 216 Building Code/Single Family Dwelling (3)**

Investigation of code and enforcement topics specific to the single family dwelling including inspections, recommendations, fire safety, construction specifications and procedures, and fire regulations. Projects and group activities will be designed and carried out.  
**3 Class Hours**

**\*FRS 250 Special Topics (1-3)**

Exploration of special topics in Fire Protection Technology. May be repeated since topics will vary from semester to semester. Special topics have included The Psychology of the Firesetter and Code Enforcement.

**\*FRS 299 Independent Study: Fire Service (1-3)**

An individual student project in an area of fire protection or service beyond the scope of regular coursework. Conducted under supervision of coordinator and approved by department chairperson and Dean.

**Prerequisite: 6 Credits in FRS coursework and 6 Credits in General Education courses**

**GEO 120 World Geography (3)**

Description and analysis of variations in social, cultural, economic and political phenomena in major world areas. A regional approach is used to highlight the phenomena.  
**3 Class Hours**

**GER 100 Practical German: 10 Minutes a Day (2)**

Practical and simplified approach to speaking and understanding German. Emphasis on important and necessary aspects of everyday communication. Vocabulary and pronunciation acquisition through use of instructor's expertise, flash cards, stickers, illustration, and sign recognition. (Does not satisfy language requirement.)  
**2 Class Hours**

**GER 101, 102 Beginning German (4, 4)**

Basic principles of grammar and syntax. Emphasis on oral practice in classroom. Written homework assignments supplemented by work in audio-lingual laboratory. Reading and discussion of graded literary and cultural texts.

**4 Class Hours; Prerequisite: GER 101 Beginning German for GER 102**

**GER 201 German Conversation and Composition (3)**

Emphasis on the four language skills – reading, writing, speaking, listening – especially on speaking and writing. Intensive discussion of style, grammar and the contemporary idiom to enhance the student's ability to express himself in German.

**3 Class Hours; Prerequisite: GER 102 Beginning German**

**HCM 193 Introduction to U.S. Healthcare Systems (3)**

A survey of the American Health Care System that examines the elements related to the organization, delivery, financing and planning of health services.  
**3 Class Hours**

**HCM 194 Healthcare Finance (3)**

This course will present the United States' health care system from a cost perspective. Students examine the history of health care costs in the U.S., the nature of competition, the characteristics of the market for medical services that influence competition, and the implications of these factors on the health care sector of our economy. Special emphasis will be placed on the most current legislation and administrative proposals/enactments.  
**3 Class Hours**

**HIS 115 Modern Global History: The World in Transition (3)**

HIS 115 Modern Global History is a core course required of all Liberal Arts students.

The evolution of the modern world from 1500 to the present. Background to the modern world: traditional societies and cultures. Origins of modernity: the Columbian Exchange; the development of a global economy; the scientific, technological, and industrial revolutions and their consequences; development of the modern nation state system. Western expansion and the response of the peoples of Latin America, Africa, Asia, the Middle East. Issues and problems of the contemporary world. Individual instructors may choose to emphasize developments in selected geographical areas.  
**3 Class Hours**

**HIS 130 United States History I (3)**

The United States from 1607 to 1877. The colonies, Revolution, Constitution, early national period, Jacksonian era, expansion, Civil War and Reconstruction, and Westward Movement. Survey of political, economic, social and cultural developments through most of the 19th century.  
**3 Class Hours**

**HIS 131 United States History II (3)**

The United States from 1877 to the present. The closing of the frontier, the American Empire, progressive reforms, World War I, the Twenties, Depression, New Deal, World War II, the Cold War, Civil Rights, Vietnam, and the present.  
**3 Class Hours**

**HIS 141 History of Modern Latin America (3)**

History of Latin America from the 1890's to the present, emphasizing the causes of political instability and economic backwardness. Close analyses of reform, reactionary and revolutionary movements in modern Latin America and of inter-American affairs.  
**3 Class Hours**

**HIS 180 Utopia: Visions of the Good Society (3)**

Examines the functions of the Utopian Impulse throughout modern history as a series of "thought experiments" which address the question "what constitutes the Good Society?" Includes a comparative analysis of various representative utopias such as those of E. Ballamy, C.P. Gilman, B.F. Skinner, etc. Consideration will also be given to several representative anti-utopias/dystopias such as those of A.X. Huxley, G. Orwell, etc.  
**3 Class Hours**

**HIS 183 Women's History (3)**

Women from prehistoric to modern era. Review of philosophical, religious, social, and political attitudes toward women. Women's lives, achievements, and roles in Western and other civilizations. Emphasis on the United States.  
**3 Class Hours**

**HIS 185 Hitler and the Nazi Dictatorship (3)**

Origins of National Socialism, role of Adolf Hitler, road to Nazi Dictatorship, Nazi political and social revolutions. Hitler's foreign policy and Europe's reaction, World War II and Hitler's "New Order," Nazi system of persecution and genocide, collapse of the 1,000-year Reich, legacy of the Hitler period.  
**3 Class Hours**

**HIS 187 The United States Civil War: Causes and Effects (3)**

A study of American institutions within the timeframe of 1815-1877; examination and analysis of Antebellum politics, society, and culture; origin and nature of the American Civil War and the social, economic and political changes brought about by the War and Reconstruction.  
**3 Class Hours**

•All asterisked (\*) courses are taught evenings only and when enrollment permits.



**HIS 190 The World Since 1945 (3)**

An overview of the changing patterns in world affairs since the end of World War II. Emergency of the Third World War, The Cold War, responses to scientific/technological change, insurgent movements, attempts at world organization/dismantment, the energy/ecology crisis, the various trouble spots like the Middle East, Panama Canal, Berlin, Asia.

3 Class Hours

**HIS 194 Readings in African-American History (3)**

A survey of African-American thought, including the ideas of Booker T. Washington, W.E. DuBois, Marcus Garvey, Martin Luther King, Jr., and Malcolm X. In addition, attention will be given to 19th century West Africa and the problems affecting African-American society.

3 Class Hours

**HIS 299 Independent Study (1-3)**

An independent study project which is beyond the scope of courses currently offered by the department, directed by a faculty member with approval of the department chairperson. Independent study does not satisfy the Liberal Arts requirement in history, and it may not be taken in lieu of a 100-series course.

**Prerequisite:** HIS 100 The Rise of the West or HIS 115 Modern Global History

**HIT 101 Health Information Science I (4)**

Functions of a medical record department and overview of the professional association. Definition of, standards for, and development of a medical record as to content, format, evaluation and completion. A comprehensive review of the organization of the medical staff. Numbering and filing systems and methods. Overview of accrediting agencies for health care facilities.

3 Class Hours; **Corequisite:** HIT101L Health Information Science Laboratory

**HIT 101L Health Information Science Laboratory (0)**

Practical application in the medical record laboratory of the principles described in the lecture mode of this course.

2 Laboratory Hours; **Corequisite:** HIT 101 Health Information Science I

**HIT 106 Medical Terminology (3)**

A study of the language of medicine, including suffixes, prefixes and root words. Emphasis on terminology associated with the anatomic systems.

**HIT 107 Medical Transcription (3)**

Orientation to typewriting techniques and skills as well as basic word processing techniques utilizing the IBM-PC. Introduction to various medical reports, format and basic medical transcription.

2 Class Hours, 2 Laboratory Hours; **Prerequisite:** HIT 106 Medical Terminology

**HIT 110 Health Information Science II (4)**

A study of the purpose of classifying diseases and operations. In-depth study of ICD-9-CM, basic coding principles. Introduction to the prospective payment system utilizing DRGs.

3 Class Hours; **Prerequisite:** HIT 101 Health Information Science I; **Corequisite:** HIT 110L Health Information Science II Laboratory

**HIT 110L Health Information Science II Laboratory (0)**

Actual practice of coding medical records utilizing various classification systems, and assignments of DRGs.

3 Laboratory Hours; **Corequisite:** HIT 110 Health Information Science II

**HIT 144 Directed Practice (2)**

Directed summer practical experience in the hospital medical record department. Development of insight and skills into the basic medical record procedures. Graduation requirement.

40 Laboratory Hours per week for 2 Weeks; **Prerequisite:** HIT 110 Health Information Science

**HIT 202 Health Information Science III (4)**

A study of medical record department indexes, registers, and data abstracting and retrieval methods. In-depth treatment of basic hospital and vital statistics. Data display and report generation.

3 Class Hours; **Prerequisites:** HIT 110 Health Information Science II and BIO 132 Human Biology or permission of instructor; **Corequisites:** HIT 202L Health Information Science III Laboratory and BIO 140 Pathophysiology

**HIT 202L Health Information Science III Laboratory (0)**

Applications of the principles learned in the lecture mode of this course.

2 Laboratory Hours; **Corequisite:** HIT 202 Health Information Science III

**HIT 210 Health Information Science IV (4)**

Principles of management and the role of the supervisor in the medical record department. Developmental and operational phase of health information systems. Trends in health care delivery systems. Overview of ambulatory care, long-term care and psychiatric facilities. Introduction to problem-oriented Medical Record System.

3 Class Hours; **Prerequisites:** HIT 202 Health Information Science III and HIT 202L Health Information Science III Laboratory; **Corequisite:** HIT 210L Health Information Science IV Laboratory

**HIT 210L Health Information Science IV Laboratory (0)**

Practical application of the principles in the lecture mode of this course.

2 Laboratory Hours; **Prerequisites:** HIT 110 Health Information Science II and HIT 144 Directed Practice

**HIT 214 Alternate Classification Systems (2)**

An indepth study of nomenclature/classification systems such as CPT-4, DSM-III, ICD-9, SNOMED, SNOP. Overview and application of policies and procedures for ambulatory care coding and data collection.

1 Class Hour, 2 Laboratory Hours; **Prerequisite:** HIT 110 Health Information Science

**HIT 222 Medical Legal Aspects (3)**

Introduction to legal aspects of medical records. Legal basis for medical practice, confidentiality. Patient's "Bill of Rights," voluntary and involuntary release of medical information. Authorizations and consents, professional liabilities, medical-moral issues such as abortion, euthanasia, sterilization, artificial insemination.

3 Class Hours; **Prerequisite:** HIT 202 Health Information Science

**HIT 236 Quality Assurance (3)**

A study of the components of a quality assurance program — quality assessment, utilization management, and risk management.

1 Class Hour, 2 Laboratory Hours; **Prerequisite:** HIT 110 Health Information Science

**HIT 245 Directed Practice (6)**

Directed practice experience in the hospital and related sites. Correlated with MRT 210 Medical Record Science to develop insight and skills into advanced medical record procedures.

6 Weeks: 40 Hours per week; **Prerequisites:** HIT 202 Health Information Science and HIT 144 Directed Practice

**HIT 295 Health Information Seminar (2)**

Detailed study and analysis of specific problems encountered in the administration of a medical record department. Correlated with directed clinical practice. Case study and extensive literature review.

2 Class Hours

**HSV 101 Cardiopulmonary Resuscitation (1)**

Procedures necessary in administering CPR in emergency situations. American Heart Association method of teaching with certification. Performance of mastery level by demonstration and exam. Will be given in 2-hour sessions to make a total of 8 hours.

**HUM 200 Joseph Campbell: Transformations of Myth Through Time (3)**

A combined classroom and televiewing course. This course consists of 14 hour-long programs selected from over 50 lecture hours by Joseph Campbell, a noted author, scholar, teacher, and storyteller. The series is introduced by *The Hero's Journey*, an award-winning biographical film.

3 Class Hours

**HUS 120 Basic Sign Communication I (3)**

Introduction to conversationally relevant signs, fingerspelling, grammatical sign principles, and background, cultural, and linguistic information related to deaf people and sign language. The Direct Experience Method is used to help students learn to sign by experiencing the use of signs directly. Some emphasis is on non-manual communication (visual training, gestures and mime are used to help develop a comfort level for using face, hands and body for communication purposes). Approximately 400 signs are introduced.

3 Class Hours

**HUS 220 Basic Sign Communication II (3)**

Review of Basic Sign I. Expressive and receptive fingerspelling as well as recall of vocabulary. Sign vocabulary is further organized around basic conversational topics and questions. Sign grammatical principles are expanded and practiced. Approximately 300 signs are introduced.

3 Class Hours; **Prerequisite:** HUS 120 Basic Sign Communication I

**HUS 230 Basic Sign Communication III (3)**

Additional and expanded topics for conversation are introduced with the associated vocabulary. Variations of signed messages by incorporating different sign principles and mime. More emphasis on conversational fluency in sign. The student will be able to generate increasingly more complex signing structures. Approximately 300 additional signs are introduced.

3 Class Hours; **Prerequisite:** HUS 220 Basic Sign Communication II

**INT 105 Basic Drafting for Interior Design (3)**

A course for the interior design student which develops the drafting skills needed for the field. Scale, orthographic techniques, and understanding of blueprints including floor plans, elevations and details will be stressed.

1 Class Hour, 4 Laboratory Hours

**INT 122 Professional Practice (3)**

Study of processes, manufacture and installation of interior design products. Techniques used in writing specifications for interior design projects.

2 Class Hours, 2 Laboratory Hours

•All asterisked (\*) courses are taught evenings only and when enrollment permits.



**INT 141 History of Fabrics (2)**

The history and development of fabric from pre-industrial through 20th century production techniques with emphasis on stylistic qualities of weaves and patterns. The student will become familiar with appropriate patterns, weaves and fibers for specific historic periods.

**2 Class Hours**

**INT 142 Fabric Analysis: Chemistry of Fibers and Construction of Fabrics (2)**

The examination of the chemistry and behavior of natural and synthetic fibers and the various constructions of woven and non-woven fabrics.

**2 Class Hours**

**INT 205 Introduction to Computer Graphics with Interior Design Applications (3)**

Introduction to the ARRIS Architectural CAD System for Interior Design students. Architectural and Interior Design applications using three ARRIS software modules: Building Design and Drafting, Architectural Drafting and Documentation, Modeling and Rendering. Use of basic drawing commands for creating, editing, and manipulating lines, arcs, text, dimensions, and symbols. Creation of floor plans using wall, door, and window elements. Creation of interior and exterior rendered perspective views. Use of color mapping and furniture symbol libraries applied to two and three dimensional drawings.

**2 Class Hours, 3 Laboratory Hours; Prerequisite: INT 105 or CIV 159**

**INT 210 Interior Design I (4)**

The studio interior design course requires the student to become well acquainted with the impact of the designed physical environment. Practical, aesthetic and psychological aspects of the built environment are addressed. Skills including conceptualizing in three dimensions, drawing in scale and presentation techniques both graphic and oral are developed. Historic aspects of design and influential architects, designers, journalists, and manufacturers will be investigated. Basic design elements will be applied to building design with emphasis on affordable residential design solutions.

**2 Class Hours, 4 Studio Hours; Prerequisites: ART 105 Introduction to Design; INT 105 Basic Drafting for Interior Design and one Art History - ART 102, 103, 108 or 109**

**INT 211 Interior Design II (4)**

To build and develop further the techniques acquired in INT 110. Emphasis on conceptual analysis of aesthetics, and function in contract interiors. Short projects simulating design practice and a major project.

**2 Class Hours, 4 Studio Hours; Prerequisite: INT 210 Interior Design I**

**INT 299 Independent Study: Interior Design (1, 3)**

See ART 299

**ITA 101, 102 Beginning Italian (4, 4)**

Basic principles of grammar and syntax. Emphasis on oral practice in classroom. Reading and discussion of graded literary and cultural texts.

**4 Class Hours; Prerequisite: ITA 101 Beginning Italian for ITA 102**

**ITA 201 Intermediate Italian I (3)**

Comprehensive review of grammar and structure of the language. Intensive reading of literary works as a basis for topics of conversation in Italian in the classroom. Emphasis on aural comprehension and oral practice in classroom.

**3 Class Hours; Prerequisite: ITA 102 Beginning Italian**

**ITA 202 Intermediate Italian II (3)**

Intensive reading of literary works of recognized authors as a basis for topics of conversation in Italian in the classroom.

**3 Class Hours; Prerequisite: ITA 201 Intermediate Italian I**

**ITA 299 Independent Study: Italian (1-3)**

An individualized student project concerned with advanced work in specific area of Italian. Conducted under the direction of a faculty member, independent study is concerned with material beyond the scope and depth of the ordinary course.

**Prerequisite: 3 semester hours of college level work in Italian**

**LIT 200 Introduction to Literature (3)**

A survey of basic genres and themes in literature with introduction to literary analysis.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 210 Studies in United States Literature I (3)**

History and development of United States literature from colonial period to late 19th century. Emphasis on several major writers of the period.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 211 Studies in United States Literature II (3)**

History and development of United States literature from late 19th century to the present. Emphasis on several major writers of the period.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 214 Studies in British Literature I (3)**

History and development of British literature from the Middle Ages to the 18th century. Selections of literary merit from prose, drama, poetry

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 215 Studies in British Literature II (3)**

History and development of British literature from the beginning of the 18th century to the middle of the 20th.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 220 The World of the Short Story (3)**

An examination of the development of American, British and Continental short stories. Emphasis on theme and structure.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 230 American Drama (3)**

Studies in dramatic theories, techniques and thematic problems of the American drama. (Students taking this course may also be interested in THR 101 Fine Arts: Introduction to Theatre and THR 111 Acting.)

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 233 World Drama (3)**

Studies in dramatic theories, techniques and thematic relationships of the world drama. (Students taking this course may also be interested in THR 101 Fine Arts: Introduction to Theatre and THR 111 Acting.)

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 235 Tragic and Comic Vision of Shakespeare (3)**

Shakespeare as both dramatist and poet. Emphasis on selected comedies, histories, tragedies.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 240 The Poetic Experience: Sight and Sound (3)**

An exploration of the different modes and moods of poetic expression. A thematic and structural approach to poetry as a total experience.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 250 Women and Literature: Other Perspectives (3)**

Students practice critical analysis and evaluation of literary works by and about women written in diverse socio-political contexts. Emphasis is placed upon the relationship between the text and its cultural setting and upon other, non-traditional critical perspectives, including feminist perspectives.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 253 Psychological Investigation in Literature (3)**

The application of Jungian, Freudian, and other psychological theories and insights to selected short stories, novels, and poems to promote more penetrating appreciation of character's motivations and actions and the literary work in general.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 255 Modern Existential Literature (3)**

An investigation of the themes of alienation and the absurd in selected prose and poetry to shed light on humanity's current existential crisis.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 257 Heritage of Modern Literature (3)**

An attempt to define modern literature as an embodiment and development of antique themes and traditions through the comparative study of the epic, the novel and related genre.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 260 Detective Fiction (3)**

A critical study of one of the most popular literary forms of our time, designed for armchair detectives. Starting with Poe, Conan Doyle (Sherlock Holmes) and other classics in the field, the course traces the development of the detective story from its puzzle-solving beginnings to the modern psychological novel of crime and detection.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 263 Children's Literature (3)**

Children's literature with introduction to the variety of books available today and development of standards for evaluating them. Prime concern is to help the student use the literature with children creatively, recognizing the importance of language arts, communication and listening skills in cognitive development.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 268 Fantasy and the Anti-Story (3)**

An overview of two popular literary types: fantasy and anti-story. History of these types, with focus mainly on 20th century development as the types have matured. Students read non-realistic fiction.

**3 Class Hours; Prerequisite: LIT 200 Introduction to Literature or Instructor's Permission**

**LIT 270 20th Century American Working-Class Literature (3)**

An examination of literature created by 20th Century American writers from working-class backgrounds. Emphasis on theme and structure in contemporary texts in several genres; some investigation of the works' socio-political contexts.

**3 Class Hours; Prerequisite: ENG 110 or 110S**

**LIT 272 Literature of the North American Wild (3)**

This course aims to involve the student in the thinking of seminal writers who struggled to define human beings' relationship to the natural world. The approach is both literary and historical. It is historical in that it begins with the overwhelming effect that the fecundity of the new world had on writers and ends with the effect



that profound environmental problems are having on thinkers and writers today. It is literary in that it examines writers who use the techniques and forms of expression usually identified with writers of creative and imaginary literature. Students will read essays, fiction, and poetry. Some videos and media presentations will be viewed.

**3 Class Hours; Prerequisite:** ENG 110 or 110S

### **LIT 273 Women About Women in Russian and American Short Stories (3)**

An examination of the short story created by 20th Century Russian and American Women Writers. Emphasis on theme and structure in contemporary texts; some cross-cultural investigations of relationships between settings and the context of women's lives.

**3 Class Hours**

### **LIT 274 Introduction to African American Literature (3)**

This will be a survey course which will introduce students to African American literature from Colonial America to the present. Various genres, representative works, and major writers will be examined in terms of development, theme, structure, and context. This will be a study of African American literature as both artistic and cultural expression.

**3 Class Hours**

### **LIT 276 Native American Literature (3)**

A critical study of literature of selected Native American tribes in distinct geographical areas of North America. Reading of traditional and contemporary works, with emphasis on translated myths, legends and songs handed down through the oral tradition. Some investigation of the works' cultural contexts.

**3 Class Hours**

### **LRS 101 Study Management (1/2)**

General principles of academic success, relationship of outside work and study, scheduling and organizing time, study and concentration, learning style evaluation. Students will construct a working study schedule.

**3 Class Hours for 3 Weeks**

### **LRS 102 Memory and Exams (1/2)**

Theories of memory. Methods of review, strategies for taking essay and objective examinations dealing with test anxiety.

**3 Class Hours for 3 Weeks**

### **LRS 103 Textbook Mastery (1/2)**

Use of college textbooks as study aids, principles of effective text reading, text study systems. Extensive application of these principles in the student's own textbook.

**3 Class Hours for 3 Weeks**

### **LRS 104 Listening and Notetaking (1/2)**

Examination of organizational patterns as they exist in oral communication. Exploration of systems on notetaking, and application of systems to student's own lectures and notes.

**3 Class Hours for 3 Weeks**

### **LRS 105 Learning Skills (2)**

Principles and techniques of academic success. Focus will be on classroom skills such as text reading and notetaking skills, time management and exam taking strategies also will be covered. All techniques will be directly applied in the students' content courses.

**3 Class Hours for 12 Weeks; course starts at the beginning of the third week of the semester; Corequisite: Students should be enrolled in a credit-bearing course which includes a textbook**

**Note:** Students may not receive credit toward graduation requirements from LRS 101/102/103/104/106 if they use LRS 105.

### **LRS 106 College Success (3)**

A review of students' learning experiences and personal learning styles. Characteristics of the independent learner, goal setting and academic success. General principles and techniques of effective study, including time management, improvement of memory and concentration, efficient textbook reading, and strategies for taking class notes and exams.

**Note:** Students may not receive credit for LRS 101/102/103/104/105 if they receive credit for LRS 106 to fulfill graduation requirements.

### **LRS 110 The Research Paper (1)**

Shaping the Paper: Development of a topic, location of appropriate resources and digestion of the material. Writing the Paper: Outlining effective composition and proper form. A hands-on approach in which students actually research a topic and compose a term paper.

**2 Class Hours for 8 Weeks; Course starts at the beginning of the fifth week of semester**

### **LRS 120 The Art of Thinking (1)**

Logic as an art. Logical principles taught in imaginative ways to achieve understanding. Emphasis on the practice of reasoning. Fundamental logic rules are taught as tools to enable the students to gain experience and confidence in thinking about issues that are important to them.

**2 Class Hours for 8 Weeks; Course starts at the beginning of the fourth week of the semester**

### **LRS 130 Introduction to Microcomputers and Word Processing (2)**

Introduction to all aspects of the microcomputer through lecture and practice. Students will master at least one word processing package, as well as gain familiarity with both a graphics and a spreadsheet package. This course is intended for students who have no prior knowledge of microcomputers.

**3 Class Hours for 10 Weeks; Course starts at the beginning of the fifth week of the semester**

### **LRS 150 Advanced Learning Skills (3)**

An intensive course in the examination and exploration of the learning process. Students will synthesize their knowledge, understanding, and appreciation of the learning process to plan, implement and evaluate their own peer tutoring. Emphasis on workshoping and collaborative learning. Intended for tutors, Supplemental Instruction Leaders, and students considering a career in education.

**3 Class Hours; Prerequisite:** Department Chair Interview and Approval

### **MAT 090 Arithmetic and the Language of Algebra (0)**

Arithmetic of whole numbers, fractions and decimals. Percent, measurement, metric units, ratio and proportion. Language of algebra, arithmetic of signed numbers, solving simple equations. Problem solving. **Note:** This course is designed to provide the skills necessary for students to successfully complete MAT 092, MAT 113, MAT 114.

**4 Class Hours**

### **MAT 092 Introduction to the Concepts of Algebra (0)**

Addition, subtraction, multiplication, division and simplification of algebraic expressions. Graphing, solving linear equations and inequalities in two variables. Quadratic forms.

**4 Class Hours; Prerequisite:** MAT 090 or equivalent

**Note:** This course is a prerequisite for MAT courses numbered 125 or lower

### **MAT 096 Metric Conversion and Dosages (0)**

Common fractions and decimal fractions. Metric computations. Apothecary systems. Apothecary, metric and household conversions. Designed to meet the mathematics proficiency required for clinical nursing course.

**1 Class Hour; Prerequisite:** Placement by Nursing Department

### **MAT 097 Intravenous Medications and Pediatric Dosage (0)**

Calculations of pediatric dosages based on body weight. Calculation of minimum fluid requirements. Designed to meet the mathematics proficiency required for second year nursing program.

**1 Class Hour; Prerequisite:** Placement by Nursing Department

### **MAT 099 Elementary Algebra (0)**

Basic arithmetic operations — basic algebraic operations, linear equations, graphing, factoring, algebraic fractions, systems of linear equations, exponents and scientific notation, roots and radicals, quadratic equations, trigonometric functions and graphs, solving right triangles. Designed to prepare technical students to enter MAT 139 Algebra, PHY 100 Preparatory Physics and CHM 102 Preparatory Chemistry.

**5 Class Hours; Prerequisite:** MAT 092 or equivalent

### **MAT 113 Mathematical Explorations I (3)**

An introduction to the variety and structural beauty of mathematics. Topics include: descriptive statistical measures and graphs; probability, combinatorics, set theory, normal distribution, informal and formal statistical inference, group decision making involving achieving fairness, apportionment problems and voting schemes. For Liberal Arts and Business students, not for Science majors.

**3 Class Hours; Prerequisite:** MAT 090 Arithmetic and the Language of Algebra or equivalent

### **MAT 114 Mathematical Explorations II (3)**

An introduction to the variety, structural beauty and practical applications of mathematics. Topics include: networks, trees, solving scheduling problems, sequences, applications of geometric growth, congruent and similar triangles, the Golden ratio, fractals, symmetry and transformations. For Liberal Arts and Business students, not for Science majors.

**3 Class Hours; Prerequisite:** MAT 090 Arithmetic and the Language of Algebra or equivalent

### **MAT 117 Elementary Finite Mathematics with Algebra (4)**

Sets, probability, matrix algebra, graphic, inequalities, linear programming, permutations and combinations, linear models of equilibrium, systems of linear equations, solving equations and inequalities. (Students may not use both MAT 145 and MAT 117 to meet graduation requirements.)

**4 Class Hours; Prerequisite:** MAT 092 Introduction to the Concepts of Algebra

### **MAT 119 Basic Modern Mathematics I (3)**

Algebra of propositions. Algebra of sets. Operations with various bases. Properties of the operations of addition, subtraction, multiplication, and division for the sets of whole numbers, integers, rational and real numbers. Introduction to number theory. Introduction to modular systems. Computing simple and compound interest. For Liberal Arts and Related Careers students - recommended for elementary education majors.

**3 Class Hours; Prerequisite:** MAT 092 Introduction to the Concepts of Algebra or equivalent

### **MAT 120 Basic Modern Mathematics II (3)**

Solving linear equations, inequalities and word problems. Graphing lines, parabolas and inequalities. Informal geometry, basic constructions and calculation of areas and volumes. Permutations and combinations. Simple and conditional probability. Introduction to statistics. Course includes writing assignments. For Liberal Arts and Related Careers students - recommended for elementary education majors. (W course.)

**3 Class Hours; Prerequisite:** MAT 092 Introduction to the Concepts of Algebra or equivalent



**MAT 124 Statistics I (3)**

Descriptive statistics, organization and presentation of data, measures of central tendency, variance, standard deviation, exploratory data analysis, binomial distribution, statistical inference, hypothesis testing, confidence intervals, normal distribution, chi-square distribution, students t-distribution, F-distribution, correlation and regression. (Students may not use both MAT 124 and MAT 125 to meet graduation requirements.)

**3 Class Hours; Prerequisite:** MAT 092 Introduction to the Concepts of Algebra, or equivalent

**MAT 125 Statistics I w/Computers (3)**

An introduction to the computer language Minitab and its applications to descriptive statistics, organization and presentation of data, measures of central tendency and dispersion, exploratory data analysis, binomial distribution, statistical inference, hypothesis testing, confidence intervals, normal distribution, Student t-distribution, chi-square distribution, F-distribution, correlation and regression. (Students may not use both MAT 124 and MAT 125 to meet graduation requirements.)

**3 Class Hours, 1 Laboratory Hour; Prerequisite:** MAT 092 Intro to the Concepts of Algebra or equivalent

**MAT 139 Algebra (4)**

Real and complex numbers, algebraic operations, functions and graphs, exponents and logarithms, linear and quadratic equations, systems of linear equations, linear inequalities, the binomial theorem, matrices and determinants.

**4 Class Hours; Prerequisite:** MAT 099 Elementary Algebra or equivalent

**MAT 140 Trigonometry (4)**

Definitions and graphs of the trigonometric functions and their inverses. Verifying trigonometric identities, reference angles, solving triangles, Law of Sines, Law of Cosines, trigonometric form of complex numbers, DeMoivre's Theorem. Applications.

**4 Class Hours; Prerequisite:** MAT 139 Algebra or equivalent

**MAT 145 Finite Mathematics (3)**

Matrices, matrix operations, solving systems of equations using matrices, simplex method, probability, game theory, graph theory, and networks. (Students may not use both MAT 145 and MAT 117 to meet graduation requirements.)

**3 Class Hours; Prerequisite:** MAT 139 Algebra or equivalent

**MAT 146 Introduction to Calculus (3)**

Analytic geometry of lines and parabolas; functions and their graphs; limits and continuity; differentiation rules and applications; integration techniques and applications; exponential and logarithmic functions and applications. Recommended for Social Science, Health Science and Business students. Not for Mathematics majors or Science majors in the A.S. degree program.

**3 Class Hours; Prerequisite:** MAT 139 Algebra or equivalent

**MAT 161 Pre-Calculus (4)**

A functional approach to algebra and trigonometry emphasizing computational skills and graphing. Algebraic operations, functions, graphs, exponents, logarithms, polynomial equations, systems of equations, inequalities, solution of triangles, Trigonometric functions and their graphs. Complex numbers and vectors. Applications. This course is designed for students who have prior experience with Algebra and Trigonometry.

**4 Class Hours; Prerequisite:** Placement by Advisor

**MAT 162 Applied Calculus I (4)**

Basic analytic geometry, distance formula, equations of lines and conics, limits, L'Hospital's rule, continuity and the derivative; differentiation of polynomials, maxima and minima; differentials and approximation; applications in kinematics and circuits; the definite integral and applications to finding area, center of gravity, volume of revolution, work done; approximate integration; differentiating products and quotients;

implicit differentiation and related rates, differentiation and integration of logarithmic, exponential, trigonometric and inverse trigonometric functions.

**4 Class Hours; Prerequisite:** Pre-Calculus or equivalent

**MAT 181 Calculus I with Analytic Geometry (4)**

A university parallel calculus course covering equations of lines, functions, limits and continuity. Differentiation of algebraic and trigonometric functions with applications including curve sketching, rectilinear motion, related rates, maxima and minima. Summation, integration and the Fundamental Theorem of Calculus. Applications of the definite integral including area, volume, arc length, surface area. Opportunities to analyze problems using computers.

**4 Class Hours; Prerequisite:** MAT 161 Pre-Calculus Mathematics or equivalent

**Note:** Students may not use more than one of the following to meet graduation requirements: MAT 146, MAT 162, MAT 181.

**MAT 182 Calculus II with Analytic Geometry (4)**

Differentiation and integration of logarithmic, exponential, hyperbolic functions, inverse trigonometric, inverse hyperbolic functions and parametric expressions. Techniques of integration including integration by parts, partial fractions and trigonometric substitution. Improper integrals indeterminate forms and L'Hopital's rule. Conic sections and rotation of axes. The polar coordinate system and its applications to differentiation and integration. Vectors in two and three dimensions. Unit tangents and normals. Lines and planes in three space. Dot and cross product, curvature. Projectile motion. Opportunities to analyze problems using computers.

**4 Class Hours; Prerequisite:** MAT 181 Calculus I with Analytic Geometry

**MAT 224 Statistics II (3)**

Review of probability fundamentals, discrete random variables and probability distributions. Continuous random variables and probability distributions, joint probability distributions and random samples, central limit theorem, point estimation, interval estimations, hypothesis testing, analysis of variance, multifactor analysis of variance, linear regression and correlation, nonlinear and multiple regression, the analysis of categorical data and non-parametric procedures.

**3 Class Hours; Prerequisite:** MAT 124 Statistics I or MAT 125 Statistics I w/Computers and MAT 139 Algebra

**MAT 245 Design of Experiments (3)**

This course is an introduction to the most common types of statistical designs and analyses of experiments. Topics include single-factor experiments with randomized blocks, Latin squares, incomplete blocks, two-factor experiments, 2<sup>k</sup> and 3<sup>k</sup> designs with correspondence, fractional designs, and other selected topics.

**3 Class Hours; Prerequisite:** MAT 224 Statistics II

**MAT 250 Discrete Mathematics (4)**

Sets, functions, mathematical induction, relations, partially ordered sets, combinatorics including permutations, the pigeonhole principle, binomial and multinomial coefficients, recurrence relations, generating functions, the principles of inclusion-exclusion. Graph theory, including paths and connectedness, minimum length paths, Eulerian and Hamiltonian graphs, graph isomorphisms, trees, planar and nonplanar graphs.

**4 Class Hours; Prerequisite:** MAT 182 Calculus II w/ Analytic Geometry

**MAT 264 Linear Algebra (4)**

Linear equations and matrices, vector spaces, inner product spaces, linear independence, linear transformations. Determinants and Cramer's rule, systems of homogeneous equations, Gram-Schmidt process and diagonalization. Eigenvalues, eigenvectors and applications.

**4 Class Hours; Prerequisite:** MAT 182 Calculus II with Analytic Geometry

**MAT 266 Introduction to Higher Math (3)**

This course provides a rigorous introduction to the concepts of sets, functions, sequences, series, differentiation and integration. Emphasis will be placed on writing mathematics clearly and concisely. Recommended for Mathematics majors or Computer Science and Engineering Science students as advised.

**3 Class hours; Prerequisite:** MAT 281 Calculus III or permission of the instructor

**MAT 281 Calculus III with Analytic Geometry (4)**

Infinite series and convergence testing, power series, radius of convergence. Partial differentiation, directional derivatives, gradients, maxima and minima. Volume and other applications done by multiple integrals. Line integrals and Green's theorem. Introduction to first order differential equations. Opportunities to analyze problems using computers.

**4 Class Hours; Prerequisite:** MAT 182 Calculus II with Analytic Geometry

**MAT 282 Differential Equations with Linear Algebra (4)**

First and second order differential equations. Matrices, determinants, eigenvalues and eigenvectors, and systems of linear equations. Linear independence, spanning sets, basis of a vector space, the Wronskian, and differential operators. Homogeneous and nonhomogeneous linear differential equations with constant coefficients. Methods of undetermined coefficients, and variation of parameters. Systems of linear differential equations, Laplace transforms, and power series solutions.

**4 Class Hours; Prerequisite:** MAT 281 Calculus III with Analytic Geometry

**MAT 299 Independent Study (1-4)**

The student undertakes an independent project in his/her specialty under the guidance of a faculty member. Only one independent study course allowed per semester. Consideration may be given a project involving work assignment.

**Prerequisite:** Department Chairperson Permission

**MDA 102 Medical Assisting Science (2)**

Introduction to the profession of medical assisting. Qualifications and duties, professional affiliation, history of medicine, ethics and professionalism, the role of the medical assistant in the physician's office. Interactions with patients and staff.

**2 Class Hours**

**MDA 104 Keyboarding and Medical Word Processing (2)**

Introduction to and development of basic keyboarding skills on typewriters and computer keyboards and introduction to word processing. Students will have the opportunity to learn keyboarding and word processing functions and apply that knowledge with hands-on development of skills. Emphasis will be on application to medical correspondence, reports, and chart notes. For Health Science students only.

**4 Laboratory Hours; Prerequisite:** BIO 131 Human Biology and HIT 106 taken concurrently or consent of instructor

**MDA 106 Medical Correspondence and Communications Using Computers (4)**

Introductory course in computers with emphasis on Word Processing. Development of correspondence and medical reports on the computer using dictaphones. Fundamentals of transcription, speed building and accuracy using medical terminology.

**2 Class Hours, 4 Laboratory Hours; Prerequisite:** HIT 106 Medical Terminology I and MDA 104 Keyboarding or consent of the instructor



**MDA 114 Standard First Aid Management of Emergencies (1)**

The causes, care and prevention of accident/emergency lifesaving situations. Mastery level of learning for the proficiency of basic skills. Certification by National Safety Council. Recognizing, managing and aiding the physician in medical emergencies and maintaining emergency supplies.  
**2 Laboratory Hours**

**MDA 115 Medical Assisting Procedures I (4)**

Basic clinical procedures of medical assisting in the physician's office. Use and management of diagnostic instruments and equipment. Related patient care, professional ethics, medical terminology nomenclature. For Medical Assisting students.  
**3 Class Hours, 2 Laboratory Hours; Prerequisite:** HIT 106 Medical Terminology or consent of instructor

**MDA 201 Medical Assisting Procedures II (4)**

Introduction to basic microbiology, hematology and urinalysis. Collection, preparation and testing of blood, urine and body fluids. Significance of laboratory analysis. For Medical Assisting students.  
**2 Class Hours, 4 Laboratory Hours; Prerequisite:** BIO 132 Human Biology II, MDA 115

**MDA 206 Medical Office Management (4)**

Medical office administrative procedures, such as bookkeeping principles and practices, patient health records, insurance forms, banking and postal services, payroll records, patient accounts, office machines. Mechanics of applicable medical correspondence. Appointment scheduling, supplies and inventory. Emphasis on practical application of administrative techniques. For Medical Assisting students.  
**3 Class Hours, 3 Laboratory Hours; Prerequisites:** MDA 102 Medical Assisting Science and MDA 106 Medical Correspondence and Communications

**MDA 207 Advanced Medical Office Management (4)**

Accounting, payroll and bookkeeping procedures. Computerized applications for payroll. Banking, spreadsheets and reconciliations of bank statements. Use of Peg Board/Write It Once System integrated with the accounting objectives. Preparation of Internal Revenue deposits, records, and year-end reports for the Medical Office. For Medical Assisting students only.  
**3 Class Hours, 2 Laboratory Hours; Prerequisites:** MDA 102 Medical Assisting Science, MDA 106 Medical Correspondence and Communications Using Computers, concurrent with MDA 206 Medical Office Management

**MDA 208 Medical Ethics, Law and Economics (3)**

Emphasizing the medical ethics which set the standards of conduct for physicians, as well as guidelines for medical assistants. Requirements to practice medicine, legal liabilities of the profession, and the importance of medicolegal consent forms. Legal arrangements of private medical practices, medical care financing, and systems of health care delivery  
**3 Class Hours**

**MDA 210 Pharmacology (2)**

A practical course relevant to health science courses. Emphasizes knowledge of prescriptions and prescription writing. Basic principles of mathematics in pharmacy. Drugs governed by U.S.P. standards which are in common use and the generic-pharmaceutical relationship. Drug grouping action in relation to human physiology. For Health Science students.  
**2 Class Hours; Prerequisite:** BIO 132 Human Biology II or consent of instructor

**MDA 211 Medical Assisting Procedures III (4)**

Advanced technical procedures in medical assisting specifically oriented to the various medical specialties. Techniques of electrocardiography, audiometry and physical therapy. Field trips and practical experiences give additional background outside of the classroom.  
**3 Class Hours, 2 Laboratory Hours; Prerequisite:** BIO 132 Human Biology, MDA 115, Medical Assisting Procedures I and II MDA 201

**MDA 245 Directed Practice (5)**

Directed practical experience as an extern in physician's offices, medical centers, school health departments, rehabilitation clinics, and other health care facilities, weekly seminar. For senior Medical Assisting students who must have a 2.0 overall average.  
**1 Class Hour, 16 Laboratory Hours; Prerequisites:** MDA 206 Medical Office Management and MDA 201 Medical Assisting Procedures II. MDA 211 Medical Assisting Procedures III and MDA 210 Pharmacology must be taken previously or concurrently

**MET 110 Introduction to Technologies (1/2)**

Personal computers are used to familiarize students with a software package that includes word processing, spreadsheets and graph construction. Library research, local industry tours, and a review of employment and transfer opportunities provide students with valuable insight into their future roles in Mechanical Engineering Technology.  
**1 Class Hour**

**MET 112 Metrology (3)**

The study of the science of measurement. Systems of measurement. Accuracy, precision and reliability compared. Standards, including surface finish. Students learn to use the steel rule, calipers, micrometers, fixed gauges, feeler gauges, radius gauges, gauge blocks and surface plates, height and planer gauges, V-blocks, toolmaker's flat, mechanical indicating equipment, visual gauge, air gauges, toolmaker's microscope, optical flats and angle measuring equipment. Calibration of instruments and appropriate recordkeeping.  
**3 Class Hours; Prerequisite:** MAT 124 Statistics I or MAT 139 Algebra

**MET 113 Engineering Drawing I (2)**

An introductory course designed to develop understanding and problem-solving skills necessary to use the principles of descriptive geometry and orthographic projection used in preparing engineering drawings. Topics to include dimensioning, sectional views and auxiliary views.  
**1 Class Hour, 3 Laboratory Hours**

**MET 116 Engineering Drawing II with CAD (2)**

A second course in engineering drawing, emphasizing layout, detail and assembly drawings. Includes topics in geometric dimensioning and tolerancing with an introduction to computer aided drafted.  
**1 Class Hour, 3 Laboratory Hours; Prerequisite:** MET 113 Engineering Drawing I

**MET 118 Survey of Basic Industrial Safety and First Aid (3)**

Work area safety, safe material handling, tool and equipment safety, machinery safeguards, personal protection, electrical safety, hazardous materials and operation, fire prevention, understanding OSHA, first aid.  
**2 Class Hours**

**MET 121 Manufacturing Processes I (2)**

A basic study of manufacturing materials and processes, such as: cutting-tool materials and cutting fluids, electrical discharge machining, properties of materials, drilling and related hole making processes, joining processes and equipment, producing and processing ferrous and non-ferrous metals. Laboratory exercises provide an opportunity for actual practice in the operation of selected manufacturing equipment.  
**1 Class Hour, 3 Laboratory Hours**

**MET 122 Manufacturing Processes II (3)**

A continuation of the basic study of manufacturing processes. The nature of metals and alloys, heat treatment, various casting processes and the processing of metals by hot and cold working techniques. Special topics include screw thread systems and their measurement, indexing, gear terminology and manufacturing methods, tapers and Computer Numerical Controlled machining. Laboratory exercises parallel classroom topics and will provide the student with an opportunity to practice some of these manufacturing methods.  
**2 Class Hours, 2 Laboratory Hours; Prerequisite:** MET 121 Manufacturing Processes I

**MET 132 Applied Mechanics (4)**

STATICS: Free body diagram, trusses, friction, centroids, moments of inertia.  
DYNAMICS: Motion of particles and bodies without consideration of the forces required to produce or maintain motion (Kinematics), unbalanced forces and the motion they produce (kinetics), work and energy, impulse and momentum.  
**4 Class Hours; Prerequisites:** PHY 161 Physics I and MAT 161 Pre-Calculus or equivalent or Department Chairperson approval

**MET 141 Mechanical Drawing I (2)**

An introductory course in the fundamentals of engineering drawing. Topics include lettering, geometric construction, basic dimensioning, orthographic projection, sectioning, auxiliary view, sketching and shape description.  
**1 Class Hour, 2 Laboratory Hours**

**MET 142 Mechanical Drawing II w/CAD (2)**

A continued study in engineering drawing with an introduction to a CAD System. Selected topics to include assembly drawings, fits and tolerances, geometric dimensioning and tolerancing along with an introduction to CAD.  
**1 Class Hour, 2 Laboratory Hours; Prerequisite:** MET 141 Mechanical Drawing I

**MET 211 Basic Mechanical CAD (2)**

Introduction to the College's Mechanical CAD System. Command structure, screen controls, and use of menus to create, edit, and manipulate geometry for 2D and 3D models. Use of special features for the production of fully detailed layout drawings from 2D and 3D models. File management. Selected topics.  
**1 Class Hour, 2 Laboratory Hours; Prerequisite:** MET 116 Engineering Drawing II with CAD or Department Chairperson approval

**MET 213 Advanced Mechanical CAD (2)**

Use of the College's Mechanical CAD System to create, edit, and manipulate advanced 2D and 3D geometric entities. Use of multiple views, viewport, levels, masking, and color. Use of axes options, construction planes and offsets, along with advanced 3D modeling techniques. Applications to assemblies and descriptive geometry. Selected topics.  
**1 Class Hour, 2 Laboratory Hours; Prerequisite:** MET 211 Basic Mechanical CAD

**MET 220 Programming CNC Machine Tools (3)**

An introductory course in the fundamentals and some of the advanced principles of CNC Milling/Turning. Topics to include: Introduction to NC/CNC Machinery (history, input media and tooling), New Part Production Set-up, Typical Controller Operations (store, load and edit programs) and "Manual Part Programming" of CNC machine tools using the industry standard "G" and "M" Codes.  
**2 Class Hours, 2 Laboratory Hours; Prerequisite:** MET 122 Manufacturing Processes II



**MET 221 Tool Design (4)**

Introduction to the problems of tool design with emphasis on planning the process of production, designing and developing the necessary tools, and utilizing available manufacturing facilities. Practical analysis and comparison of the use and cost of tools, jigs and fixtures, dies, molds and gauges as they are used in modern manufacturing.

**4 Class Hours; Prerequisite:** MET 122 Manufacturing Process II and MAT 139 Algebra

**MET 222 Hydraulics and Pneumatics (3)**

Basic theory of hydraulic and pneumatic systems. Combinations of systems in various circuits, basic designs and functions of circuits and motors, controls, electrohydraulic servo-mechanisms, plumbing, filtration, accumulation and reservoirs.

**2 Class Hours, 2 Laboratory Hours; Prerequisite:** MET 132 Applied Mechanics

**MET 223 Computer Integrated Machining (3)**

A continuation of Programming CNC Machine Tools. The emphasis of this course is on "Computer Assisted Part Programming." The course is designed to include students who have had no exposure to computer operations, but have knowledge of machine shop operations including CNC machine tools. The MS-DOS operating system and CAD/CAM software are introduced. Students use CAD to create part drawing files and CAM to choose the machining process, assign tool parameters, define the tool path, give path verification, develop the post-processor and to transfer the CNC code to the CNC machine tool.

**2 Class Hours, 2 Laboratory Hours; Prerequisite:** MET 220 Programming CNC Machine Tools

**MET 224 Control Systems (3)**

Hydraulic, pneumatic, mechanical, electrical and electronic control systems and components. Basic description, analysis and explanation of operation. Typical performance characteristics, limitation on performance accuracy, applications and their utilization in industrial processes.

**3 Class Hours; Prerequisite:** MET 122 Manufacturing Process II and MET 222 Hydraulics and Pneumatics

**MET 235 Strength of Materials (3)**

Normal, shear, bearing, thermal and torsional stresses and strains. Stress-strain curves. Shearing forces, bending moments, shearing stresses and deflection of beams. Columns and pressure vessels. Students will be required to write programs in FORTRAN.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** MET 132 Applied Mechanics and CST 122 FORTRAN

**MET 236 Statics and Strength of Materials (4)**

The study and analysis of applied forces and the effects these forces have on engineering materials. The laws of force and moment of equilibrium are used to develop free body diagrams and solve problems in concurrent and nonconcurrent force systems. Calculated forces are then used to study the stress-strain relationships developed as a result of tension, compression, shearing, torsion and bending of various materials.

**3 Class Hours, 3 Laboratory Hours; Prerequisites:** MAT 140 Trigonometry and PHY 161 Physics I

**MET 238 Mechanical Design (4)**

Application of the principles of strength of materials to the design of machine elements. Design and analysis of shafts, analysis of mechanism: displacement, velocity and acceleration. Design of cam profiles. Students will be required to write programs in FORTRAN.

**3 Class Hours, 3 Laboratory Hours; Prerequisite:** MET 235 Strength of Materials

**MET 243 Fluid Mechanics (3)**

The study of fluid statics and dynamics. Topics include fluid forces, flow measurement, the steady flow energy equation, viscosity, laminar and turbulent flow, frictional losses, pipeline systems, drag and lift. Writing Emphasis Course.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** MET 132 Applied Mechanics

**MET 244 Thermodynamics (3)**

A study of the property and energy relationships in non-flow and steady flow applications. Topics include ideal gas relationships, real working substances, the first and second law of thermodynamics, thermodynamic cycles, and available energy. The cycle concept is applied to steam power, internal combustion engines, gas turbines, refrigeration and heat pumps. Consideration is also given to combustion analysis, and heat transfer.

**2 Class Hours, 3 Laboratory Hours; Prerequisite:** PHY 162 Physics II

**\*MET 246 Refrigeration and Air Conditioning (3)**

Review of selected topics in thermodynamics, fluid mechanics and heat transfer. Analysis of the mechanical refrigeration cycle and psychometric processes. Determination of heating and cooling loads. Introduction to the design of air handling systems and the selection of heating and cooling equipment.

**3 Class Hours; Prerequisite:** PHY 161 Physics I

**MET 252 Engineering Materials (4)**

Atomic bonding, crystals, noncrystalline materials, phase equilibria, microstructures, strengthening and toughening of materials, polymers and composites, conduction materials, magnetic and dielectric properties, and corrosion.

**3 Class Hours, 3 Laboratory Hours; Prerequisites:** MET 235 Strength of Materials and MET 121 Manufacturing Processes I or MET 236 Statics and Strength of Materials

**\*MET 253 Engineering Materials (3)**

Atomic bonding, crystals, noncrystalline materials, phase equilibria, microstructures, strengthening and toughening of materials, polymers and composites, conduction materials, magnetic and dielectric properties, and corrosion.

**2 Class Hours, 2 Laboratory Hours; Prerequisites:** MET 235 Strength of Materials and MET 121 Manufacturing Processes I or MET 236 Statics and Strength of Materials

**MET 263 Engineering Statistics and Quality Control (2)**

Introduces measures of the central tendency and dispersion of data. Relates the theories of statistics and probability to the industrial techniques of control charting and acceptance sampling. Emphasizes the concepts of accuracy, precision, and repeatability in engineering measurement. Topics include normal, hypergeometric, binomial, and Poisson distributions; control charts for mean, range, fraction defective, etc.; single and multiple sampling; specifications tolerances, and measurement.

**1 Class Hour, 2 Laboratory Hours; Prerequisite:** MAT 161 Pre-Calculus or MAT 139 Algebra

**MET 264 Statistical Quality Assurance (2)**

Introduces measures of the central tendency and dispersion of data. Relates the theories of statistics and probability to the industrial techniques of control charting and acceptance sampling. Emphasizes the concepts of accuracy, precision and repeatability in engineering measurement. Topics include normal, hypergeometric, binomial, and poisson distributions; control charts for mean, range, fraction defective, etc.; single and multiple sampling; specifications tolerances, and measurement.

**1 Class Hour, 3 Laboratory Hours; Prerequisite:** MAT 139 Algebra or MAT 161 Pre-Calculus. This course to be used within the Mechanical Engineering Technology program.

**\*MET 280 Management Decisions (2)**

Objective criteria and evaluation in making decisions. Currently accepted procedures to conceive management models and systems.

**2 Class Hours**

**\*MET 285 Time, Motion and Wage Study (2)**

Analysis of time spent and methods used for industrial tasks. Relations to wage structure on individual and plant-wide basis.

**2 Class Hours; Prerequisite:** MAT 139 Algebra

**\*MET 286 Production Control (2)**

Planning, scheduling and routing of goods through a plant from raw materials to finished products. Production control principles, the control of manufacturing processes.

**2 Class Hours; Prerequisite:** MAT 139 Algebra

**\*MET 287 Plant Layout and Materials Handling (2)**

Plant arrangement as it influences industrial operations. Assembling data, coordinating operations, developing operational layouts, evaluative arrangements. Materials handling requirements, planning and evaluation.

**2 Class Hours; Prerequisite:** MAT 139 Algebra

**MET 295 Seminar (1-3)**

An opportunity for the interested student to become involved with the process of research, formal paper preparation, formal delivery and defense of ideas presented. Also a critical evaluation of ideas set forth by others.

**Prerequisite:** As established by the Department Chairperson

**MET 299 Independent Study (2-4)**

The student undertakes an independent project in his specialty under the guidance of a faculty member. Only one independent study course allowed per semester. Consideration may be given a project involving a work assignment.

**Prerequisite:** Approval of Department Chairperson

**MLT 110 Introduction to Medical Laboratory Technology (1)**

Overview of medicine and the field of Medical Technology. Designed to acquaint the student with the clinical laboratory and with the professional role of the technologist/technician in that setting. Discussions will include the variety of opportunities open to those entering the field.

**1 Class Hour**

**MLT 201 Hematology and Coagulation (3)**

Comprehensive study of the hemopoietic and hemostatic systems and the normal physiology and classic pathology of both systems. Emphasis is on the mechanics and interpretation of routine and special test procedures.

**3 Weeks: 2 Class Hours, 4 Laboratory Hours per day; Prerequisite:** BIO 132 and approval of MLT advisor

**MLT 201P Hematology and Coagulation Practicum (3)**

Clinical experience in the hematology laboratory of an affiliated hospital. Designed for observation and development of technical skills needed to perform in a hematology/coagulation laboratory.

**3 Weeks: 30 Hours per week of practicum; Corequisite:** MLT 201 Hematology and Coagulation

**MLT 202 Urinalysis/Body Fluids (1)**

Study of the physiologic processes which result in the formation of urine and body fluids. Emphasis on analysis of fluids and interpretation of test results.

**1 Week: 2 Class Hours, 4 Laboratory Hours per day; Prerequisite:** BIO 132 and permission of MLT advisor



**MLT 202P Urinalysis/Body Fluids Practicum (1)**

Clinical experience in the Urinalysis/Body Fluid area of an affiliated hospital. Designed to give students experience and competence in performing standard laboratory techniques.

**1 Week: 40 Hours of Practicum; Corequisite: MLT 202 Urinalysis/Body Fluids**

**MLT 203 Microbiology (6)**

Survey of the microbial world, from taxonomy, morphology, and structure to metabolism, genetics, and growth characteristics of microbes. Emphasis in the latter part of course on the isolation and identification of medically important microbes.

**5 Weeks: 3 Class Hours, 3 Laboratory Hours per day; Prerequisite: BIO 132 and permission of MLT advisor**

**MLT 203P Microbiology Practicum (2)**

Clinical experience in the Microbiology area of an affiliated hospital. Students gain competence in diagnostic techniques used in the growth and identification of medically important microbes.

**2 Weeks: 40 Hours per week; Corequisite: MLT 203 Microbiology**

**MLT 204 Phlebotomy (1)**

Training and experience in the practice of phlebotomy, teaching students to recognize and use blood collection equipment, practice universal precautions, and perform procedures of routine venipuncture and skin puncture. Practical experience at affiliated hospitals.

**8 Class Hours; 30 Practicum Hours; Prerequisite: Permission of MLT advisor**

**MLT 205 Immunology (3)**

Study of mechanisms of immune response, including discussions of humoral and cell-mediated immunity, complement, phagocytosis, and the interaction of all systems. Immunodeficiency, autoimmunity, immune proliferation and immunopathology examined in relation and contrast to normal immune function. Laboratory sessions emphasize testing to determine immune status and diagnose disease.

**2 Weeks: 4 Class Hours, 2 Laboratory Hours per day; Prerequisite: BIO 132 and permission of MLT advisor**

**MLT 205P Immunology Practicum (1)**

Clinical experience in the immunology area of an affiliated hospital. Designed to give students experience and competence in performing standard laboratory techniques.

**1 Week: 35 Hours; Corequisite MLT 205**

**MLT 206 Immunohematology (2)**

Introduction to the field of blood banking. Theoretical knowledge of blood groups and blood grouping, component and transfusion therapies, transfusion reactions, and allo- and autoantibody formation. In laboratory sessions the student performs ABO and Rh grouping, antibody identification, and compatibility testing.

**2 Weeks: 2 Class Hours, 4 Laboratory Hours per day; Prerequisite: MLT 205 or permission of MLT advisor**

**MLT 206P Immunohematology Practicum (2)**

Experience in the Blood Bank of an affiliated hospital. Students perform routine blood bank procedures.

**2 Weeks: 35 Hours per week; Corequisite: MLT 206 Immunohematology**

**MLT 207 Clinical Chemistry (5)**

Designed to cover the principles and analytical methods of clinical chemistry as performed in the medical laboratory. The relationship of physiochemical measurements of body function in health and disease including the renal, liver, digestive and respiratory systems. Emphasis on those chemical tests which evaluate the function of these systems related to metabolism, protein synthesis, pH, blood gases, electrolyte balance, enzymes and hormones. Laboratory work includes the theory, operation and maintenance of the specialized and semi-

and fully automated analytical instrumentation used to perform these chemical tests.

**5 Weeks: 2 Class Hours, 4 Laboratory Hours per day; Prerequisite: CHM 146, CHM 133 and permission of MLT advisor**

**MLT 207P Clinical Chemistry Practicum (3)**

Clinical experience in the Chemistry and special Chemistry areas of an affiliated hospital. Students practice methods learned in MLT 207 Clinical Chemistry to expand their technical skills into a broader range of equipment and more advanced instrumentation.

**3 Weeks: 35 Hours per week; Corequisite: MLT 207 Clinical Chemistry**

**MLT 298 Special Topics (1-2)**

Special courses covering topics in Medical Technology which are not available within and are beyond the scope of the usual course offerings.

**Prerequisite: Departmental approval**

**MLT 299 Independent Study (1-4)**

Individual student project in an MLT specialty, conducted under the direction of a faculty member and approved by the department chairperson.

**Prerequisite: Departmental approval**

**MUS 101 Introduction to Music (3)**

A survey course examining the music of the great composers representing each major period of Music History. How to listen to different forms of music such as symphonies, concertos, opera and jazz will be included in the topics covered. Emphasis on developing listening skills to bring the student to an informed awareness and understanding of great music.

**3 Class Hours**

**MUS 105 Music Theory I (3)**

A beginning course in music theory, including basic rudiments of music. Pitch and rhythmic notation, scales and intervals. Ear training through melodic and rhythmic drills and dictation.

**3 Class Hours**

**MUS 106 Music Theory II (3)**

Continuation of Music Theory I. Traditional harmony, exercises in melodic, rhythmic and harmonic dictation, aural analysis, beginning composition.

**3 Class Hours; Prerequisite: MUS 105 Music Theory I or consent of instructor**

**MUS 107 Music Theory III (3)**

A continuation of MUS 106 Music Theory II. Writing and analyzing seventh chords, secondary and borrowed chords, modulation, and musical form will be addressed.

**3 Class Hours; Prerequisite: MUS 106 - Music Theory II**

**MUS 111 19th Century Music (3)**

Important musicians and musical styles of the Romantic Period. Emphasis on developments in piano literature, the symphony orchestra and opera. Listening to selected recordings and attendance at local concerts.

**3 Class Hours; Prerequisite: MUS 101 - Introduction to Music or permission of the instructor**

**MUS 112 20th Century Music (3)**

Important musicians and musical styles of the 20th century. Emphasis on the trends and development of music in America. Leading European composers.

**3 Class Hours; Prerequisite: MUS 101 Introduction to Music or consent of instructor**

**MUS 114 History of Opera (3)**

A survey of the various styles of opera from the 17th through the 20th centuries. Emphasis on the works of master composers — Monteverdi, Mozart, Verdi and Wagner; impact of opera on music history; social and cultural contents of opera.

**3 Class Hours; Prerequisite: MUS 101 or permission of instructor**

**MUS 115 Ear Training I (1)**

Aural training in melodic dictation and sight singing in two clefs. Also discrimination of intervals needed to sight read music.

**2 Studio Hours**

**MUS 116 Ear Training II (1)**

A continuation of MUS 115 - Ear Training I. Emphasizes dictation in two parts in various clefs and further development of interval and rhythmic discrimination.

**2 Studio Hours; Prerequisite: MUS 115 - Ear Training I**

**MUS 117 Ear Training III (1)**

A continuation of MUS 116 - Ear Training II. Will stress the development of dictation in three parts, modulation, and sight singing.

**2 Studio Hours; Prerequisite: MUS 116 - Ear Training II**

**MUS 120 Piano Class I (1)**

Group piano lessons are given which will allow students the opportunity to develop basic piano skills and develop proper technique on the instrument.

**2 Laboratory Hours**

**MUS 121 Piano Class II (1)**

This course is a continuation of Piano Class I and further develops the necessary piano skills required to perform elementary to intermediate piano literature.

**2 Laboratory Hours; Prerequisite: MUS 120 Piano Class I**

**MUS 180 Jazz Improvisation (2)**

Basic concepts of soloing in the jazz idiom for instrumentalists. Teach students to interpret chord symbols and understand the sounds that they represent in a meaningful way to create a jazz solo with their instrument. Attendance at jazz concerts required.

**1 Class Hour, 3 Studio Hours, 2 Lecture Hours; Prerequisite: MUS 105 Music Theory I or permission of instructor; May be repeated for credit once**

**MUS 185 Beginning Guitar (1)**

Emphasis on Music Fundamentals, scales, chords, reading rhythms and learning to accompany singers. Students must own their own instruments.

**2 Studio Hours**

**MUS 186 Guitar Ensemble (1)**

Provide students the opportunity to perform music for the guitar in a group setting. Emphasis will be on group and individual playing. The music played will be chosen with respect to the historical literature available.

**2 Studio Hours; May be repeated for credit 3 times**

**MUS 187 The Guitar: Its History and Music (3)**

The development of the physical and musical history of the instrument is presented through live performances and recordings. The history of the guitar and its importance relative to composers and performers throughout music history will be identified.

**3 Class Hours**

**MUS 188 Practical Music Theory for the Performing Musician (3)**

Designed to help the novice performer of music understand key signatures, scales, rhythms, chords, form intervals, transposition, notation and sight reading. Emphasis on fundamentals of music and practical application of what is learned.

**3 Class Hours**

**MUS 190 The College Choir (1)**

Students who sing in the College Choir receive one credit per semester.

**3 Studio Hours (May be repeated 3 times for credit.)**



**MUS 191 Music Performance (1)**  
Students who participate in the recitals or concerts of the academically associated Broome Community College Music Performance groups receive one credit per semester.  
**May be repeated 3 times for credit**

**MUS 192 Woodwind Ensemble (1)**  
**May be repeated 3 times**

**MUS 193 Brass Ensemble (1)**  
**May be repeated 3 times**

**MUS 194 Voice Class I (1)**  
Provides any student the opportunity to learn correct vocal production, breath control, diction, articulation and musical interpretation of art songs. Emphasis is on tonal production and group and individual singing.  
**2 Studio Hours**

**MUS 195 Jazz Ensemble (1)**  
By audition only.  
**May be repeated 3 times**

**MUS 196 String Ensemble (1)**  
(Not for guitarist.)  
**May be repeated 3 times**

**MUS 197 Applied Music I (1)**  
For students in their first semester. To enable instrumental and vocal students to study privately with a teacher and develop their musical performance abilities. Not a course for beginners. A minimum of 15 lessons required per semester. Cost of lessons not included in BCC tuition.  
**2 Studio Hours**

**MUS 198 Applied Music II (1)**  
Continuation of MUS 197 Applied Music I, for second semester students. A minimum of 15 lessons required per semester and continued musical growth and maturity in solo and ensemble performance is expected. Cost of lessons not included in BCC tuition.  
**2 Studio Hours; Prerequisite: MUS 197 Applied Music I**

**MUS 199 Intermediate Guitar (1)**  
Continuation of beginning guitar. Emphasis on picking techniques, fingerings, chords, music readings and performance. There will also be a greater emphasis on technique.  
**2 Studio Hours; Prerequisite: MUS 185 Beginning Guitar**

**MUS 201 College Band (1)**  
College band is required of all woodwind, brass and percussion majors and open to the campus community. The band performs two major concerts during the year as well as providing music for various college functions. Membership is by audition. May be repeated three times.  
**3 Studio Hours**

**MUS 294 Voice Class II (1)**  
Continuation of Voice Class I and for students who have performed in high school musicals, chorus and/or those who have studied privately. This is a group situation in which vocal literature appropriate to individual and group singing will be sung.  
**2 Studio Hours; Prerequisite: MUS 194 Voice Class I or permission of instructor**

**MUS 297 Applied Music III (1)**  
Continuation of MUS 198 Applied Music II, for third semester students.  
**2 Studio Hours; Prerequisite: MUS 198 Applied Music II**

**MUS 298 Applied Music IV (1)**  
Continuation of MUS 197 Applied Music III, for fourth semester students.  
**2 Studio Hours; Prerequisite: MUS 297 Applied Music III**

**MUS 299 Independent Study: Music (1-3)**  
An individual student project concerned with advanced work in a specific area of music. Conducted under the direction of a faculty member, independent study is concerned with material beyond the scope and depth of the ordinary course.  
**Prerequisite: 3 semester hours of college level work in music**

**PED 100 Archery (1/2)**  
Fundamentals of shooting — seven-step approach. Proper target shooting technique and form stressed.  
**4 Class Hours, 11 Laboratory Hours per semester**

**PED 103 Backpacking (1)**  
A series of laboratories and lectures culminating in a four-day mandatory backpacking trip. Students learn to select, care for, and use properly the essential equipment, as well as some low-cost alternatives to expensive items. The stress is on safety and low ecological impact camping.  
**15 Class Hours, 15 Laboratory Hours per half semester**

**PED 106 Badminton (1/2)**  
Instruction and practice in the various strokes. Rules, terminology and equipment. Strategy for singles and doubles.  
**4 Class Hours, 11 Laboratory Hours per half semester**

**PED 107 Ballet I (1)**  
Beginning Ballet will introduce students to the basic elements of classical ballet in ballet technique classes.  
**8 Class Hours, 22 Laboratory Hours**

**PED 112 Bowling (1/2)**  
Bowling fundamentals including ball selection, grip, stance, approach and delivery. Etiquette, scoring, correction of basic mistakes in delivery. Classes are at off-campus site and students must pay for own games, shoe rental and transportation.  
**3 Class Hours, 12 Laboratory Hours per half semester**

**PED 118 Personal Fitness (1)**  
Individualized physical fitness program. Students identify their personal fitness profiles then participate in an exercise program designed to improve or maintain their fitness levels.  
**8 Class Hours, 22 Laboratory Hours**

**PED 119 Personal Fitness (1-1/2)**  
Individualized physical fitness program. Students identify their personal fitness profiles, then participate in an exercise program designed to improve or maintain their fitness levels.  
**12 Class Hours, 33 Laboratory Hours**

**PED 121 Golf (1/2)**  
Basic skills, etiquette and strategy. Student required to play nine holes and hit at a driving range, providing their own transportation and fees. Clubs provided for those without. For the beginning golfer.  
**4 Class Hours, 11 Laboratory Hours per half semester**

**PED 122 Horsemanship (1)**  
Basics of grooming, saddling and safety procedures. Development and expansion of riding skills. Elementary knowledge of horses, their care and maintenance. Two options available: 1. English. 2. Western. (Additional fee and taught off campus.)  
**8 Class Hours, 22 Laboratory Hours per semester**

**PED 127 Jogging (1/2)**  
Jogging as a possible leisure time activity. Physiological benefits, improvement of technique and basic principles of training. Individual works at own level and sets own goals. Distance usually worked: 2 miles.  
**3 Class Hours, 12 Laboratory Hours per semester**

**PED 130 Karate (1)**  
Classical karate on the beginning and intermediate levels. Philosophy and brief history of karate. Basic kata (forms) together with self-defense and prearranged sparring techniques. Free sparring with no body contact. Emphasis is on physical conditioning and mental discipline.  
**8 Class Hours, 22 Laboratory Hours per semester**

**PED 135 Jazz Dance I (1)**  
Jazz dance technique through practical skill work, jazz styles and dance combinations.  
**8 Class Hours, 22 Laboratory Hours per semester**

**PED 137 Jazz Dance II (1)**  
A continuation of Jazz Dance I, emphasizing jazz dance techniques through practical skill work.  
**8 Class Hours, 22 Laboratory Hours per semester; Prerequisite: PED 135 or previous dance experience**

**PED 139 Self-Defense (1/2)**  
Brief explanation of karate, judo and other martial arts. Approximately 10 basic self-defense movements which, if properly acquired and practiced, can be applicable to many situations. Basic techniques of blocking, falling, punching and general body shifting motions. No definite dress required. A student should remember that exercises are meant to increase flexibility and endurance of muscles, and the dress should be a comfortable one for this purpose. Although this is not the formal karate class, the class will be conducted with formality and discipline.  
**3 Class Hours, 12 Laboratory Hours per semester**

**PED 143 Cross-Country Skiing (1/2)**  
Instruction and practice in cross-country skiing — beginning through advanced. Conduct, terminology, safety and equipment. Classes both on and off campus. Skis, poles, bindings provided; students responsible for boots and transportation.  
**3 Class Hours, 12 Laboratory Hours per semester**

**PED 144 Aerobics (1 1/2)**  
A low impact, high energy cardiovascular program done with a music background. Floor aerobics, step aerobics, body toning, and resistance bands included. Open to both men and women.  
**12 Class Hours; 33 Laboratory Hours**

**PED 146 Aerobics (1)**  
A low impact, high energy cardiovascular program done with a music background. Floor aerobics, step aerobics, body toning, and resistance bands included. Open to both men and women.  
**8 Class Hours, 22 Laboratory Hours per semester**

**PED 147 Soccer (Women) (1/2)**  
**PED 148 Soccer (Men) (1/2)**  
Instruction and practice in the fundamental skills of kicking, tackling, trapping, dribbling and heading. Rules and tactics. Team competition. Separate sections for men and women.  
**4 Class Hours, 11 Laboratory Hours per half semester**

**PED 149 Snorkeling (1)**  
Designed to teach the swimmer the techniques of snorkeling, safety equipment selection and skills. Offered to student taking Tropical Ecology during intersession.  
**8 Class Hours, 22 Laboratory Hours per semester**

**PED 150 Personal Nutrition (1)**  
Students will learn the basic principals of good nutrition; how energy nutrients work within their body and how they can use nutrition to improve their overall health. They will also be able to utilize this information to decipher the current nutrition recommendations being addressed in the media.  
**15 Class Hours**

•All asterisked (\*) courses are taught evenings only and when enrollment permits.



**PED 169 Tennis (1/2)**

Instruction and practice in the basic strokes — forehand, backhand, serve and volley. Rules, terminology and equipment. Strategy for singles and doubles.

**4 Class Hours, 11 Laboratory Hours per half semester**

**PED 170 Trail Riding (1/2)**

Basics of grooming, saddling, and safety procedures. Development and expansion of riding skills — learning to cope with natural hazards like creeks, traffic, terrain. Elementary knowledge of horses, their care and maintenance. (Taught off campus and an additional fee is required.)

**4 Class Hours, 11 Laboratory Hours per half semester**

**PED 171 Physiology of Exercise (1)**

Effect of exercise on cardiovascular and respiratory systems. Components of fitness, principles of training along with training prescriptions. Energy supply systems discussed. Effective nutrition, ergogenic aids and environmental factors.

**15 Class Hours**

**PED 172 Volleyball (1/2)**

A basic course in the fundamentals of power volleyball. Team strategy, history and rules. Drills and competitive play.

**4 Class Hours, 12 Laboratory Hours per half semester**

**PED 173 Fitness Walking (1-1/2)**

Fitness Walking is a safe form of aerobic exercise which can be incorporated into one's life style and individual fitness program. Proper shoes and foul weather gear is needed.

**9 Class Hours, 36 Laboratory Hours**

**PED 175 Weight Training (1/2)**

Introduction to the Universal Gym as a means of physical conditioning. Components of fitness and principles of training discussed. Several strength building prescriptions presented.

**3 Class Hours, 12 Laboratory Hours per half semester**

**PED 299 Independent Study (1/2 or 1)**

Student undertakes a project of own choice with guidance from faculty member. The project is intended for a student who has completed requirements.

**Prerequisite: 2 Semester Hours in Physical Education**

**PHI 102 General Philosophy (3)**

This course introduces Philosophy by examining some of its major areas, including Metaphysics (theories concerning the nature of reality), Epistemology (theories concerning the nature of human knowledge), Ethics (theories of morality) and Logic.

**3 Class Hours**

**PHI 103 Philosophy of Mind (3)**

Introduction to metaphysical philosophy. Examination of the major views of reality: dualism, materialism, idealism. Analysis and discussion of evidence and arguments relating to issues such as "mind," immortality, free will vs. determinism, and the existence of God.

**3 Class Hours**

**PHI 104 Philosophy of Religion (3)**

Relation of religion and philosophy and an investigation of different concepts of God. Analysis of religions types and experiences, different attempts to justify religious beliefs. Investigation of the logic of religious experience through an analysis of the leading ideas in the philosophy of religion both as an historical and contemporary phenomenon.

**3 Class Hours**

**PHI 111 Humanities (3)**

Critical analysis of human development from the early beginnings to the present state through a thematic investigation of literature, philosophy, history and the arts. Classical, Medieval, Renaissance and Metaphysical Periods.

**3 Class Hours**

**PHI 112 Humanities (3)**

Critical analysis of human development from the early beginnings to the present state through a thematic investigation of literature, philosophy, history and the arts. Neoclassical, Romantic, Victorian, Early Modern and Late Modern Periods.

**3 Class Hours**

**PHI 120 Verbal Reasoning (3)**

To improve the student's ability in reasoning. Concentration on qualifications, symbols, ambiguity, analysis and semantics.

**3 Class Hours**

**PHI 201 Ethics: Moral Philosophy (3)**

Main classical and modern ethical theories, including such theorists as Plato, Aristotle, Mill, Kant, Moore. Comparison and contrast of normative and meta-ethical theories, the good life and how one should act, the meaning of moral judgments and the criteria of validity, justification of moral beliefs and the ground of moral responsibility.

**3 Class Hours**

**PHI 202 Logic (3)**

Analysis and practical application of the elements of logic as they apply to thinking on both a linguistic and formal level. Forms of argument, informal and formal fallacies, significance of the emotions on decision making, inductive and deductive processes. Symbolizing arguments and formal proofs of validity.

**3 Class Hours; Prerequisite: Any Philosophy (PHI) course or any Mathematics (MAT) course numbered MAT 139 or higher**

**PHI 203 Philosophical Issues in American Education (3)**

An inquiry into educational problems which can be illuminated by philosophical perspectives: educational aims, conceptions of learning, nature of knowledge, ethics of teaching, theories of moral education, school and society, equal educational opportunity, freedom and authority, and curriculum. Philosophical background to educational policy issues of special interest to prospective teachers, but also to individuals (citizens) concerned about public schools.

**3 Class Hours**

**PHI 206 Social and Political Philosophy (3)**

A philosophical study of the social/political organization of society through an examination of such topics as justice, authority, leadership, individual rights, and of the relationship between the state and various social institutions, such as family, business, church, and education.

**3 Class Hours**

**PHI 208 Humanities and Technology (3)**

An investigation of the interaction of humanities and technology. An examination of the reciprocal impacts of various human values and technology through consideration of these topics: methods of inquiry, communication, life and death, the environment, and robotics and artificial intelligence.

**3 Class Hours**

**PHI 299 Independent Study: Philosophy (1-3)**

An individual student project concerned with advanced work in a specific area of philosophy. Conducted under the direction of a faculty member, the independent study is concerned with material beyond the scope and depth of ordinary course.

**Prerequisite: 3 semester hours of college level work in philosophy**

**PHS 110 Physical Science for Information Management (3)**

Physical principles related to the recording, storage, and retrieval of information. Paper, magnetic, electrical, optical, and photographic media are explored. Methods of physics and chemistry are applied to determine the longevity of record storage and retrieval possibilities in the event of a disaster. Does not meet science requirement for LAAA, LAAS, or BAAS degree.

**2 Class Hours, 2 Laboratory Hours**

**PHS 111 Physical Science for Today (3)**

Beginnings of astronomy, the earth and moon, planets and satellites, the sun and other stars, cosmology, chemistry of our atmosphere, weather and methods of modification, water cycle and pollution. Composition of the earth's crust erosional processes, earthquakes and volcanoes, plate tectonics, humans and their environment. Required laboratory field trips supplement classroom experience. Does not meet science requirement for LAAA, LAAS or BAAS degree.

**2 Class Hours, 2 Laboratory Hours**

**PHS 113 Physical Science — Astronomy (4)**

The Copernican and Ptolemaic models of the solar system. The planets, sun, moon and comets. Stellar magnitudes and evolution of stars. The size and age of the universe and modern developments in astronomy and cosmology. Required field trips supplement classroom experience.

**3 Class Hours, 3 Laboratory Hours; Prerequisites: MAT 099 or equivalent**

**PHS 114 Physical Science — Meteorology (4)**

Principles governing the atmosphere, its composition, structure and behavior; energy transfer and balance; and the changing seasons are presented. Humidity; the formation of dew, fog, and clouds; atmospheric stability and precipitation are examined. Forces that affect the winds and the wind-ocean connection are relayed to the students. The types of air masses and fronts and the process of cyclogenesis is described. Severe weather such as: thunderstorms, lightning, tornadoes, and hurricanes are discussed.

**3 Class Hours, 3 Laboratory Hours; Prerequisites: MAT 099 or equivalent**

**PHS 115 Physical Science — Geology (4)**

Minerals, rocks — their structure and identification. Erosion of the crust, its uplifts and deformation. Earthquakes and the interior of the earth. Tectonics and ecology from a geologic viewpoint. Required laboratory field trips supplement classroom experience.

**3 Class Hours, 3 Laboratory Hours; Prerequisites: MAT 099 or equivalent**

**PHS 116 Physical Science — Energy and Environment (4)**

Basic energy principles and the role of these principles in understanding and appreciating the problems of the environment. Problems of pollution and depletion of natural resources. Application of physics in the everyday world. Required laboratory field trips supplement classroom experience.

**3 Class Hours, 3 Laboratory Hours; Prerequisites: MAT 099 or equivalent**



**PHS 215 Physical Science —  
Historical Geology (4)**

Geologic time: catastrophism vs. uniformitarianism, relative and absolute dating, geologic time scale, stratigraphy; environments: ecology, biogeography, marine and nonmarine sedimentary environments; evolution: Lamarck, Darwin, speciation, extinction, evolutionary trends; mountain building and sedimentation: ancient and modern analogs; Precambrian: formation of solar system, Archean and Proterozoic rocks, atmosphere, cratons, life, Ediacara; Paleozoic, Mesozoic and Cenozoic: life, paleogeography, regional examples and extinctions. Required laboratory field trips supplement classroom experience.

**3 class hours, 3 Laboratory Hours; Prerequisites:** MAT 099 or equivalent and PHS 115 Physical Science — Geology

**PHY 090 Preparatory Physics (0)**

Application of basic numerical, algebraic, and trigonometric procedures to the solution of physical problems. An applied academics approach is used to examine topics in force, work, rate, resistance, energy, power and momentum. For each topic, an attempt is made to discuss mechanical, fluid, electrical, and thermal industrial applications.

**3 Class Hours, 2 Laboratory Hours; Prerequisite:** MAT 099 Elementary Algebra or equivalent

**PHY 091 Preparatory Physics II (4)**

A continuation of PHY 090: The application of basic numerical, algebraic, and trigonometric procedures to the solution of physical problems using an applied academics approach. The topics examined are Momentum, Vibrations, Energy Transducers, Energy Converters, Optical Systems, Radiation, and Time Constants.

**3 Class Hours, 3 Laboratory Hours; Prerequisite:** PHY 090 Preparatory Physics

**PHY 118 Physics for Physical  
Therapist Assistants (4)**

Forces, torques, linear motion, energy, momentum, conservation laws; temperature and heat, temperature scales, heat transfer, changes of state; electric fields, potential difference; Ohm's law, DC circuits, magnetic field, electromagnetic induction, motion of charges in magnetic fields; wave motion, electromagnetic spectrum, atomic structure.

**3 Class Hours, 2 Laboratory Hours; Prerequisites:** MAT 099 or equivalent

**PHY 121 Physics for  
Radiographers (4)**

Motion, conservation laws, the electric field and potential, Ohm's law, DC circuits, the magnetic field, electromagnetic induction, AC circuits, wave motion, electromagnetic waves, atomic structure, production of x-rays, nuclear structure, radioactive decay, interaction of radiation with matter, radiation detection. For Radiologic Technology students.

**3 Class Hours, 2 Laboratory Hours; Prerequisites:** MAT 099 or equivalent

**PHY 161 Physics I (4)**

Structure and language of physics. Standard units of measurement of length, mass and time. Basic mathematical foundation: elementary trigonometry, vector algebra, powers of ten and significant figures. Mechanics: motion, Newton's Law, work, energy and momentum principles, rotation. Properties of matter. Concepts of heat and temperature: kinetic theory; thermodynamics. First course in an introductory non-calculus sequence. For Liberal Arts, Computer Studies and Engineering Technology students who need a Laboratory Science.

**3 Class Hours, 3 Laboratory Hours; Corequisite:** MAT 161 Pre-Calculus or equivalent

**PHY 162 Physics II (4)**

Waves and wave phenomena; mirrors and lenses; optical instruments; sound. Electricity and magnetism — electrostatics, electrical circuits, electromagnetic phenomena. Selected topics in modern physics. Second half of PHY 161 Physics I.

**3 Class Hours, 3 Laboratory Hours; Prerequisite:** PHY 161 Physics

**PHY 181 Engineering Physics I (4)**

Vectors, equilibrium, kinematics, Newton's Law of Motion, centripetal force, work and energy, impulse and momentum, rotation, elasticity, harmonic motion, hydrostatics and hydrodynamics.

**3 Class Hours, 2 Laboratory Hours; Corequisites:** MAT 181 Calculus I and EGR 100 Orientation

**PHY 182 Engineering Physics II (4)**

Coulomb's Law, electric field, Gauss' Law, electric potential and energy, capacitance, DC circuits, magnetic induction, magnetic forces and torques, induced EMF, self-inductance, AC circuits, electromagnetic waves.

**Prerequisite:** PHY 181 Engineering Physics I; **Corequisites:** MAT 182 Calculus II and EGR 100 Orientation

**PHY 281 Engineering Physics III (4)**

Temperature, heat transfer, thermodynamics, kinetic theory, waves, sound, geometrical and physical optics, introduction to quantum mechanics, atomic and nuclear physics.

**4 Class Hours; Prerequisites:** 1 year of Calculus and PHY 182 Physics II or equivalent; **Corequisite:** EGR 200 Orientation

**\*PLA 110 Survey of Paralegalism (3)**

Role of the paralegal and attorney. Introduction to jurisprudence and functions of administrative agencies. Local, state, federal courts. Introduction to contracts, torts, negligence, criminal procedure, real property law, law office management. Legal terminology.

**3 Class Hours**

**\*PLA 120 Advanced Paralegalism (3)**

Continuation of law office management. Introduction to research techniques, family law, surrogate, wills and estates, agency and partnership, bankruptcy, corporate law, commercial paper, workman's compensation with procedures and practices of each. Legal terminology.

**3 Class Hours**

**\*PLA 200 Real Property Law (3)**

Comprehensive survey of law of real property, emphasizing, practical application to a paralegal function. Analysis of form of deeds, bonds, notes, mortgages, assignments, discharges, purchase of contracts, leases, options. Training in searching title, basic understanding of abstracts of title, real property litigation, estates, condemnation and foreclosure.

**3 Class Hours; Prerequisite:** PLA 110 Survey of Paralegalism or permission of department

**\*PLA 207W Legal Writing and  
Research (3)**

Development of legal research and drafting skills through use of digests, reporter systems, and other features of law libraries. Analysis of various types of legal documents for clarity, composition, conciseness. Practice in research and drafting of legal documents. Writing Emphasis Course.

**3 Class Hours; Prerequisites:** PLA 110 Survey of Paralegalism, ENG 110 Written Expression I, and 3 additional credits in PLA or department permission

**\*PLA 215 Estates, Probates and  
Trusts (3)**

Disposition of decedent's property, law of interstate succession, execution and probate of wills, nature and creation of trusts and the administration of estates and trusts, estate and gift tax preparation.

**3 Class Hours; Prerequisite:** PLA 110 Survey of Paralegalism or permission of department

**\*PLA 220 Contracts (3)**

The law of contracts, their historical significance, formation, validity interpretation, transfer or contractual rights. Assignment, third party beneficiaries, discharge, breach and remedies. (BUS 118 Business Law I may be substituted with department permission.)

**3 Class Hours**

**\*PLA 222 Medical Law (3)**

General coverage of how legal and medical issues are inter-related, including right to treatment, organ transplant, right to die, abortion issues, medical malpractice, informed consent, insanity defense, surrogate mothers. Lecture and discussion. How these topics affect the role of the attorney and paralegal in servicing client needs.

**3 Class Hours**

**\*PLA 225 Family Law (3)**

Pleadings relative to general practice of law in relationships to the family unit. Laws relating to marriage, divorce, annulment, custody and support, adoption, name change, guardianship, paternity. Written pleadings and necessary research pertaining to these aspects of family law.

**3 Class Hours**

**\*PLA 226 Taxation Law for  
Paralegals (3)**

Principles of federal taxation, analysis of IRS code and related case law, emphasis on law and concepts of taxation, basic and advanced tax law terminology, litigation involving the IRS. Exploration of social changes, and factors involving tax problems, current issues in tax reform, perspective of the paralegal regarding resolution of tax disputes.

**3 Class Hours**

**\*PLA 227 Constitutional Law for  
Paralegals (3)**

The practice of everyday general law as affected by the U.S. Constitution, and the Bill of Rights, with applications to the paralegal function. Issues of contemporary concern including cases of local courts and of the Supreme Court and their implications for law in general and society at large.

**3 Class Hours**

**\*PLA 240 Corporate Law (1)**

Types, uses and organization of the corporation, anti-trust and securities law, mergers and consolidation, liquidation and dissolution.

**1 Class Hour - 5 Week Session**

**\*PLA 250 Municipal Law (1)**

Structure and operations of local government in New York State. Evolution of local government in New York during the first two centuries of its existence. Laws, ordinances, and operations.

**1 Class Hour - 5 Week Session**

**PLA 251 Federal Civil Procedure (1)**

Federal court system, rules of civil procedure including pleading, motions, depositions, litigation procedures and the role of the paralegal.

**3 Class Hours - 5 Week Session**

**PLA 252 Applied Real Estate (1)**

Role of the paralegal in Real Estate transactions including agreements, abstracts, preparation of documents, contracts, and closing procedures. Students conduct a "mock" real estate transaction.

**3 Class hours - 5 Week Session**

**PLA 253 Computers in the  
Law Office (1)**

Computer applications including hardware and software, financial management, word processing, real estate practice packages, computerized research, litigation support, and document management.

**3 Class Hours - 5 Week Session**

**\*PLA 260 Labor-Management  
Relations (Labor Law) (1)**

Labor-management relations in the public and private sectors. Taft-Hartley Act, National Labor Relations Act and Wagner Act, unfair labor practices, labor contracts, arbitration and mediation, availability of injunctions in labor disputes.

**1 Class Hour - 5 Week Session**



**\*PLA 270 Vehicle and Traffic Law (1)**

Regulations of traffic within the state of New York. Emphasis on violations and traffic-related misdemeanors resulting from violation of the rules of the road and court proceedings resulting therefrom.  
**1 Class Hour - 5 Week Session**

**\*PLA 280 Litigation and Trial Preparation (1)**

Intake procedure, systems and analysis, concepts of jurisdiction and venue, parties to an action, pleadings, pre-trial procedures, motions and special practice, special proceedings, trials, judgments and appeals.  
**1 Class Hour - 5 Week Session**

**\*PLA 290 Landlord-Tenant Relations (1)**

Problems faced by landlords and tenants, private housing, live-in arrangements, covenants, leases, warranties. Tenant and landlord rights and obligations.  
**1 Class Hour - 5 Week Session**

**PLA 295 Paralegal Practicum (4)**

Designed for students without previous exposure to the legal field to observe and study operations, policies, and procedures performed by paralegals in various settings, (private firms, public agencies, commercial corporations, etc.). Emphasis on attorneys and paralegals interaction and paralegal relations with areas outside the office (clients, municipal agencies, other firms, commercial institutions, other legal agencies, etc.). Final report integrating the practical and theoretical aspects of their experiences.  
**2 Class Hours and 4 Laboratory Hours; Prerequisites: 30 credits of counseled coursework, at least 12 of which must be in PLA credits or permission of department chairperson**

**\*PLA 299 Independent Study: Paralegal (1-3)**

An individual student project in paralegal studies which is beyond the scope or requirements of the courses offered by the program. Conducted under the direction of a faculty member or attorney, and approved by the program coordinator.

**Prerequisite: PLA Survey of Paralegalism plus three additional hours in a 200 level PLA course**

**POS 201 Introduction to American Government (3)**

American political institutions, processes and behavior. The relationships among cultural, legal and social aspects of the political system. Structure, organization and function of political parties, pressure groups and mass media. Application to contemporary issues and events.

**3 Class Hours**

**POS 204 American State and Local Government (3)**

Theory and practice of state and local government, utilizing a problem-solving or "policy" approach. Students are encouraged to explore in depth the workings of city and county governments locally.

**3 Class Hours**

**POS 299 Independent Study (1-3)**

An independent student project which is beyond the scope of courses currently offered by the department, directed by a faculty member with approval of the department chairperson.

**Prerequisite: 3 Semester hours of political science**

**PSY 100 Psychology of Personal Adjustment (3)**

Investigation of bio-social factors which influence human behavior with emphasis on: (1) development of physical, mental, emotional, social and spiritual well-being; (2) personal responsibility for one's lifestyle and the consequences that flow from one's choices. (This course cannot be used as a prerequisite for other psychology courses.)

**3 Class Hours**

**PSY 110 General Psychology (3)**

Definition and description of psychology. Topics may include functions of neural system, sensation and perception, learning, memory, motivation, emotion, conflict and frustration, personality, social psychology. Methods and statistical applications, history and fields of psychology.

**3 Class Hours**

**PSY 210 Developmental Psychology (3)**

Human development from infancy through childhood, adolescence, and adulthood. Intellectual growth, personal and social adjustment, the relationship between physical and mental development, and typical problems in various states of the life-cycle are considered. Especially for Nursing students.

**3 Class Hours Prerequisite: PSY 110 General Psychology**

**PSY 211 Child Development (3)**

The growth, maturation and development of children, including mental and motor phases, learning, motivation and personality formation.

**3 Class Hours; Prerequisite: PSY 110 General Psychology**

**PSY 212 Adolescent Development (3)**

The developmental tasks of the adolescent years, influence of people and institutions on self-concept. Physical, psychological, intellectual effects and intellectual growth.

**3 Class Hours; Prerequisite: PSY 110 General Psychology**

**PSY 214 Abnormal Psychology (3)**

Survey of the normal and abnormal personality with special emphasis on certain causal factors pertaining to maladaptive behavior. A general framework for understanding abnormal behavior patterns, including common misconceptions, accepted definitions, and the classification of mental disorders.

**3 Class Hours; Prerequisite: PSY 110 General Psychology**

**PSY 217 Introduction to Counseling Theory and Practice (3)**

Varied methods of counseling, employing current theories, situational examples and means for determination of method to be used. Practical cases in social sciences, clinics, hospitals, and educational institutions. Overall training and personality of the counselor.

**3 Class Hours; Prerequisite: PSY 110 General Psychology**

**PSY 223 Intelligence and the Mentally Retarded (3)**

An introduction to the major areas of atypical social, emotional and cognitive development. Attention will be focused on the problems, etiologies and expectancies of the social and/or emotional maladjustments and the cognitive atypicalities (Learning Disabilities, Mental Retardation, Savants, etc.) Special consideration will be given to intelligence testing and the educational, social, legal and placement needs of the atypical individual.

**3 Class Hours; Prerequisite: PSY 110 General Psychology**

**PSY 227 Behavior Modification (3)**

Principles of behavior modification using classical and operant techniques. Practical applications of these principles to the fields of child care, psychotherapy and correctional institutions.

**3 Class Hours; Prerequisite: PSY 110 General Psychology**

**PSY 230 Psychology of Women (3)**

A course focusing on the scientific study of female behavior, personality, and the biological, psychological and cultural determinants of women's roles in society.

**3 Class Hours; Prerequisite: PSY 110**

**PSY 299 Independent Study (1-3)**

An individual student project in psychology which is beyond the scope or requirements of the courses offered by the department, conducted under the direction of a faculty member and approved by the department chairperson.

**Prerequisites: PSY 110 General Psychology plus 3 additional hours in a 200 level PSY course**

**PTA 100 Introduction to Physical Therapy I (4)**

The history and development of medicine is outlined. The profession of physical therapy is presented with emphasis on the definition of the role and education of the physical therapist assistant. Students acquire basic knowledge of SOAP note writing, medical terminology, health care institutional organization, ethics, medical-legal aspects of patient care, and fiscal considerations involved. Interpersonal skills and professional/patient interactions are discussed.

**4 Class Hours; Corequisite: BIO 131**

**PTA 101 Introduction to Physical Therapy II (4)**

This course is a continuation of PTA 100. General concepts of disease and disease processes are discussed. Diseases of selected organs are studied.

**4 Class Hours; Prerequisite: PTA 100; Corequisite: BIO 132**

**PTA 102 Introduction to Rehabilitation (4)**

The principles of normal body alignment, body mechanics, posture, balance and movement are presented. Bed positioning, moving and lifting the dependent patient are discussed and demonstrated. Goniometrics, transfer and elevation activities, passive and self range of motion exercises are practiced. The therapeutic gymnasium, wheelchairs and assistive devices are introduced. Architectural barriers are explored. The rehabilitation of the patient with spinal cord injury, cerebrovascular accident and amputation is studied.

**6 Class Hours; Prerequisites: PTA 100, BIO 131, PHY 118**

**PTA 103 Physical Agents and Massage (4)**

Basic principles of massage and application of modalities are presented. Specific skills practiced in the laboratory include various massage techniques; use of hot and cold packs, paraffin application; use of whirlpool and contrast baths; use of ultrasound; application of microwave diathermy; use of electrical stimulation; and ultraviolet and infrared radiation therapy techniques. Principles and procedures related to the use of the Hubbard tank, therapeutic pool and intermittent compression are also discussed.

**6 Class Hours; Prerequisites: PTA 100, BIO 131, PHY 118; Corequisite: PTA 101**

**PTA 110 Clinical Affiliation I (2)**

This course constitutes the student's first clinical affiliation assignment. The student spends three to five work days in one health care facility working under the supervision of a physical therapist. The student is assigned to work with patients requiring treatments with which the student is familiar including simple modalities, simple exercise routines, ambulation and activities of daily living. The student meets with the clinical coordinator several times during the five-week period to assess progress.

**90 Clinical Hours over 3-6 weeks; Prerequisites: PTA 101, 102, 103, 105**

**PTA 201 Kinesiology (4)**

Muscle structure and function are reviewed. Normal human motion is studied. Manual Muscle Testing is studied in the laboratory. Posture and normal gait are reviewed. Pathological gait patterns are presented and analyzed.

**6 Class Hours; Prerequisite: BIO 132, PHY 118, PTA 102; Corequisite: PTA 202**

•All asterisked (\*) courses are taught evenings only and when enrollment permits.



**PTA 202 Therapeutic Exercise (4)**

The principles and techniques of therapeutic exercise are presented. Specific neurological, medical, surgical and orthopedic conditions are studied. Chest physical therapy including postural drainage is practiced.

**6 Class Hours; Prerequisites:** PTA 101, BIO 132, PHY 118; **Corequisite:** PTA 201

**PTA 210 Clinical Affiliation II (4)**

This course constitutes the student's second clinical affiliation assignment. The student spends two days in one health care facility working under the supervision of a physical therapist. The student is assigned to work with patients requiring treatments with which the student is familiar including simple modalities, simple exercise routines, ambulation and activities of daily living. The student is also introduced to the patient requiring therapeutic exercise routines which are part of the student's concurrent course work. The student meets with the clinical coordinator during the fifteen-week period to assess progress.

**180 Clinical Hours during 15 weeks; Prerequisite:** PTA 110; **Corequisite:** PTA 201, 202

**PTA 213 Senior Seminar I (5)**

Additional neurological, orthopedic, medical and surgical conditions are presented. Basic principles of testing and complex treatment procedures are included so that the student understands and is aware of how to assist the Physical Therapist. Additional psychosocial issues are also discussed. This course is presented in a seminar format of two to four-hour segments for the first 7 weeks of the semester.

**SPECIAL CONSIDERATIONS:** This course may be presented by guest lecturers and sessions may be held off campus in various health care facilities depending upon the particular topic. Significant preparation time outside of regular class hours is required.

**75 Class Hours during 7 weeks; Prerequisites:** PTA 201, 202, 210

**PTA 220 Clinical Affiliation III (6)**

This course constitutes the student's final clinical affiliation assignment. The student works full-time in one health care facility for a period of six weeks under the supervision of a physical therapist. The student is assigned to work with all types of patients requiring treatments with which the student is familiar including all modalities, exercise routines, gait training and activities of daily living. The student meets with the clinical coordinator several times during the six-week period to assess progress.

**240 Clinical Hours during 6 weeks; Prerequisites:** PTA 210, 213

**PTA 224 Senior Seminar II (1)**

This final course of the student's academic career is designed to allow students to integrate their theoretical knowledge and their clinical experience. Students meet in seminar format and present case studies based on their clinical experience. If time permits special topics are presented and discussed. In addition a student/teacher conference is required for each student prior to graduation. Course meets three hours per day, three days per week during final two weeks of the semester.

**9 Class Hours for 2 weeks; Prerequisites:** PTA 213, 220

**PTA 299 Independent Study (1-4)**

Course content covering advanced work in Physical Therapist Assistance on which the instructor and student agree. The material is beyond the scope of an ordinary course and it must be approved by the department chairperson. Conducted under the direction of a faculty member.

**Prerequisite:** Department approval

**RAD 100 Introduction to Radiologic Technology (3)**

Overview of radiologic technology through the study of its historical development, its placement in the medical field today, the organization of a modern radiology department, professional ethics, medicolegal aspects of radiology, medical terminology and math for radiographers.

**3 Class Hours**

**RAD 101 Radiologic Technology I (3)**

Introduction to the basic principles of radiographic imaging including recording media, processing methods, radiographic quality and radiographic accessories. Lecture and laboratory are coordinated to enhance these fundamental concepts.

**3 Class Hours, 1 Laboratory Hour**

**RAD 102 Radiologic Technology II (3)**

Advanced study of the factors contributing to the radiographic image. Writing Emphasis Course.

**3 Class Hours, 1 Laboratory Hour; Prerequisite:** RAD 101 Radiologic Technology I or permission of instructor

**RAD 103 Positioning I (2)**

Instruction and practice in radiographic positioning or the appendicular skeleton.

**6 Laboratory Hours**

**RAD 104 Positioning II (1)**

Instruction and practice in radiographic positioning of the axial skeleton.

**3 Laboratory Hours; Prerequisite:** RAD 131 Clinical Education I

**RAD 110 Methods of Patient Care (1)**

Patient care procedures routinely performed in the radiology department.

**1 Class Hour, 1 Laboratory Hour**

**RAD 115 Radiation Protection (1)**

Basic radiation protection for the student radiographer.

**RAD 131 Clinical Education I (Winterim) (0)**

Introduction and orientation to the radiology department in an affiliated hospital. (Successful achievement is a graduation requirement.)

**2 Weeks of instruction; Prerequisites:** BIO 131 Human Biology I and all first semester RAD designated courses

**RAD 132 Clinical Education II (2)**

Observation and clinical experience for the development of competency involving elementary radiographic procedures in an affiliated hospital.

**16 Laboratory Hours; Prerequisite:** RAD 131 Clinical Education (Winterim) or permission of instructor

**RAD 133 Clinical Education III (Summer Term I) (3)**

Clinical experience for development of competency involving general radiographic procedures in an affiliated hospital.

**40 Laboratory Hours; Prerequisites:** RAD 132 Clinical Education II and BIO 132 Human Biology II or permission of instructor

**RAD 201 Radiologic Technology III (3)**

Principles and operation of radiographic imaging equipment, including x-ray tubes, tomography, mobile units, fluoroscopy television and digital radiography.

**3 Class Hours; Prerequisites:** PHY 121 Physics for Radiographers and RAD 102 Radiologic Technology II or permission of instructor

**RAD 204 Advanced Positioning (1)**

Instruction and practice in positioning techniques involving the skull, facial bones, and advanced radiographic procedures.

**3 Laboratory Hours; Prerequisite:** RAD 133 Clinical Education III or permission of instructor

**RAD 216 Imaging Modalities (1)**

Introduction to the principles of computerized axial tomography, nuclear medicine, magnetic resonance imaging, and ultrasound.

**1 Class Hour; Prerequisite:** RAD 201 Radiologic Technology III or permission of instructor

**RAD 220 Radiologic Pathology (2)**

A presentation of the various medical and surgical diseases and their relationship to radiographic procedures.

**2 Class Hours; Prerequisite:** BIO 132 Human Biology II or permission of instructor

**RAD 225 Special Radiographic Procedures (3)**

Introduction to radiographic examinations involving surgical procedures and specialized equipment. Writing Emphasis Course.

**3 Class Hours; Prerequisite:** RAD 230 Clinical Education IV or permission of instructor

**RAD 230 Clinical Education IV (3)**

Practical application of advanced positioning techniques with emphasis on the skull and facial bones.

**24 Laboratory Hours; Prerequisite:** RAD 133 Clinical Education III (Summer) or permission of instructor

**RAD 231 Clinical Education V (Winterim II) (0)**

Clinical assignment devoted to the application of radiographic procedures under direct supervision in a cooperating hospital. (Successful achievement is a graduation requirement.)

**2 Weeks of instruction; Prerequisite:** RAD 230 Clinical Education IV or permission of instructor

**RAD 232 Clinical Education VI (3)**

Practical application of advanced radiographic procedures under direct supervision in an affiliated hospital.

**24 Laboratory Hours; Prerequisite:** RAD 231 Clinical Education V (Winterim) or permission of instructor

**RAD 233 Clinical Education VII (Summer Term II) (3)**

Clinical experience for the development of competency.

**40 Laboratory Hours**

**RAD 245 Radiobiology (2)**

Radiobiology and advanced radiation protection procedures related to diagnostic and therapeutic uses of radiation.

**2 Class Hours; Prerequisite:** RAD 201 Radiologic Technology III or permission of instructor

**RAD 250 Image Assessment (2)**

The basic principles and techniques of quality assurance testing presented and illustrated through laboratory experiments. Major emphasis on the tests and measurements used to analyze imaging systems with minimum information loss.

**2 Class Hours, 1 Laboratory Hour; Prerequisite:** RAD 201 Radiologic Technology III or permission of instructor

**RAD 295 Seminar in Radiography (2)**

Preparation of the technical report and its organization for both written and oral presentation. Readings in current literature and journals.

**2 Class Hours; Prerequisite:** Senior Year Status

**RAD 299 Independent Study (1-3)**

An individual student project concerned with advanced work in a specific area of radiography. Independent study is concerned with material beyond the scope and depth of courses currently offered by the department. Conducted under the direction of a faculty member.

**Prerequisite:** Department Chairperson approval



**RDG 090 Reading Fundamentals (0)**  
A non-credit course involving individual diagnosis of student's reading strengths and weaknesses, and development and implementation of program to upgrade basic skills. Content to vary with individual student.  
**4 Class Hours**

**RDG 092 College Preparatory Reading (0)**  
An individualized course emphasizing vocabulary expansion, inferential and critical comprehension, and flexible rate. Instruction and practice of reading skills to specific content areas.  
**4 Class Hours**

**RDG 094 College Vocabulary Skills (0)**  
Designed to provide students with several methods of mastering vocabulary encountered in college courses. Students will review dictionary skills. Learn to infer meanings from context, structural analysis, and methods of studying vocabulary for examinations. In-class practice will be designed to fit students' individual needs.  
**2 Class Hours for 8 Weeks**

**RDG 110 Efficient Reading (1)**  
Development of skills characteristic of the mature reader. Examination of structure of material, emphasis on identification of purpose, flexibility of rate.  
**2 Class Hours for 10 Weeks; Course starts at beginning of third week of semester**

**RDG 120 Critical Reading (3)**  
Emphasis is on critical reading and thinking skills. Students will analyze and evaluate college level readings beyond the literal level. Critical thinking skills will also be applied to the mastery of content area text material.  
**3 Class Hours**

**RIM 100 Introduction to Records/Information Management (3)**  
This course gives the student an overview of various configurations of recordkeeping systems. The student will study file classification systems, file management and concepts of database management.  
**3 Class Hours**

**RIM 101 Systems and Functions of Records/Information Management (3)**  
This course introduces the student to the scope and problems involved in administering a program. The course focuses on the life cycle of records. This includes all phases from creation to storage, and retrieval to disposition of records. Records inventory and analysis, and records protection and disposition are discussed. An overview of equipment and supplies necessary to implement a Records and Information Management program is included.  
**3 Class Hours**

**RIM 200 Specialized Functions in Records/Information Management (3)**  
This course introduces students to the following functions of Records/Information Management: Forms Management, Disaster Prevention and Recovery, Micrographics, Optical Disk Technology and Reprographics.  
**3 Class Hours**

**RIM 297 Cooperative Work Experience (3)**  
Students will be placed in supervised records and information management positions in local government offices. Cooperative work experience students will meet with their coordinator weekly to discuss such topics as interviewing techniques and job analysis and evaluation.  
**Prerequisite: RIM 100, RIM 101 and RIM 200**

**RUS 101/102 Beginning Russian I & II (4)**  
Basic principles of grammar and syntax. Reading and discussion of graded literary and cultural texts.  
**4 Class Hours, 1 Laboratory Hour**

**RUS 201 Intermediate Russian I (3)**  
Review of grammar and its application to spoken and written Russian. Reading of literary and cultural texts.  
**3 Class Hours**

**RUS 202 Intermediate Russian II (3)**  
Continuation of RUS 201.  
**3 Class Hours**

**SAC 101 The Individual in a Changing Environment (3)**  
Individual interaction and reading designed to foster understanding and application of psychological and emotional growth within the many environments we are part of. Basic class material is the individual and group analysis of student's experience within an immediate unstructured setting. Focus on analysis and organization of experience into a personally rewarding conception of growth. Individual self-development projects outside the class.  
**3 Class Hours**

**SAC 110 Orientation for International Students (2)**  
An orientation course for international students designed to aid in their adjustment as students at Broome Community College. Study skills, academic regulations, the American educational system, individual educational and vocational goals, American customs. Especially intended for students during their initial semester of enrollment in conjunction with English-as-a-Second-Language course offerings, such as ESL 103, 104, 106. (This course is not acceptable for credits toward a degree.)  
**2 Class Hours**

**SAC 250 Career Exploration (3)**  
How to plan, establish, change a career. The process of deciding on a career and implementing career goals, assessment of values, interests and skills plus their relationship to occupations. Analysis of the labor market needs, identification of employers and sources of occupation information, the means of securing employment through proposals, resumes, applications and job interviews. Supportive small group atmosphere. Class activities include discussion, speakers, testing, and individual counseling within career development theory.  
**3 Class Hours**

**SAC 251 Career Search (1)**  
For people who know their interests, skills, and values but are not sure which career field or lifestyles would be most satisfying to them. Sources of occupational information, analysis of labor market needs, what colleges and college majors best prepare students for their career goals. For students who are beginning a career, changing careers, or returning to the job market. For students who scored 13-18 on My Vocational Situation. Supporting small group atmosphere. Discussion sessions, speakers, testing field work, and individual counseling.  
**2 Seminar Hours**

**SAC 295 Seminar in Human Potential (3)**  
Human Potential seminar centers on the person within a positive group setting while working on and with the potential of all involved. It assists persons in achieving the following: becoming more self-directed, self-motivating, self-aware, self-controlled, self-disciplined and empathetic toward others. The focus is on developing the person's own resources by utilizing specific and structured procedures.  
**3 Class Hours**

**SAP 115 Semester Abroad (15)**  
Students studying overseas for a semester are registered for this course before departure. It signifies a full semester of study rather than a particular course. Once students register abroad, SAP 115 is dropped and replaced by the actual courses enrolled in. All SAP and OP\_ designators indicate a course taken in a BCC sponsored program overseas and are assigned regular letter grades.  
**Prerequisites: see page 18**

**SOC 110 Introduction to Sociology (3)**  
Sociological facts and principles dealing with the scientific study of human relationships. Emphasis on analysis and study of culture and human society, socialization, groups and group structures, collective behavioral patterns and the concept of social institutions. Initial experiences for students who desire an introduction to the sociological perspective.  
**3 Class Hours**

**SOC 111 Social Problems (3)**  
The sociology of social and urban problems. Topics may include crime, population, inequality, discrimination, mental illness, attitudes toward work, social control and the dynamics of social change. Students should be aware that individual instructors approach these problems in different ways, depending on students' and instructors' interests. SOC 110 Introduction to Sociology is recommended as an initial experience.  
**3 Class Hours**

**SOC 210 Crime and Deviant Behavior (3)**  
The theoretical aspects of deviance as crime, variations in crime rates, the social and psychological causes of crime, other deviant behavior and the salient research discoveries in these areas. Specific areas within criminology will be reviewed from a multidisciplinary approach to permit as broad an understanding of the problem as possible.  
**3 Class Hours; Prerequisite: SOC 110 Introduction to Sociology, SOC 111 Social Problems or instructor's permission**

**SOC 230 The Family/Marriage and its Alternatives (3)**  
Social and personal factors which make for adequate family functioning, the forms the family takes, its internal processes and the functions it serves in society. Covers systematically the important theoretical and experimental ground on those issues relevant to both the scholarly and practice-minded student.  
**3 Class Hours**

**SOC 234 Sociology of Chemical Dependency (3)**  
Examines the social issues and problems of chemical dependency in American society. Legal and illegal substances, the causes of substance abuse, and alternatives will be examined.

**SOC 250 Introduction to Social Work (3)**  
Social work as a profession in the context of the social welfare institution; historical and philosophical roots of social work and social welfare; attributes of the social work role; social workers' knowledge base; fields of social work practice.  
**3 Class Hours; Prerequisites: SOC 110 Introduction to Sociology and PSY 110 General Psychology**

**SOC 299 Independent Study (1-3)**  
An individual student project in sociology which is beyond the scope or requirements of the courses offered by the department, conducted under the direction of a faculty member and approved by the department chairperson.  
**Prerequisite: 3 Semester Hours in Sociology**



**SOS 111 Public Affairs (3)**

Contemporary problems examined in the context of American democratic social and political beliefs and practices. Meaning of liberty, equality, individualism, justice, and civic obligation. Proposals for problem solving via "public policy."

**3 Class Hours**

**SOS 116 Social and Cultural Dimensions of International Business (3)**

An overview of the social, cultural, political, and economic factors that influence the trade related interaction of nations and the operations of global business enterprises. Trade theory, economic integration, global sourcing, export-import basics, cultural awareness, and other current topics relating to international business will be covered.

**3 Class Hours - Cross-listed as BUS 116**

**SOS 120 Science Technology and Democratic Society (3)**

A study of the interaction of the forces of science and technology with the major institutions (i.e., govt., industry, the family, education, and organized religion) of contemporary democratic society. Differing viewpoints on the function and purpose of technology with respect to key public policy issues (i.e., genetic engineering, solid waste management, evolution/creationism, space exploration, fetal tissue research, etc.) will be considered. Such issues will vary from term to term. (satisfies General Education, Civic Education requirement.)

**3 Class Hours**

**SOS 126 War, Peace and a Just World Order (3)**

Is war the product of our nature or our nurture? Is the war system an inherent part of the nation state system? Can war be controlled or eliminated in the existing world? If not, on what shape and form will a new world have to be based? How will it be brought into being? These questions and related issues will be addressed as we ponder the prospect of war, peace and a just world order as humanity enters the 21st century.

**3 Class Hours**

**SOS 143 Fatherhood (3)**

Focus on the scientific study of father behavior, attitudes towards fathers, historical views, and the economic, social, cultural, and political factors and issues influencing men's roles as fathers.

**3 Class Hours**

**SOS 145 Sex and Gender (3)**

Social, psychological and biological determinants of femaleness and maleness, and femininity and masculinity. Sociological, psychological, economic, political and physical causes of sexism. Relationship to cultural evolution.

**3 Class Hours**

**SOS 146 Introduction to Gerontology (3)**

Multidisciplinary analysis of the bio-psycho-social characteristics of older persons. Examination of major issues and dynamics involved in the process of growing old.

**3 Class Hours; Prerequisite: PSY 110 General Psychology or permission of instructor**

**SOS 150 Introduction to Human Service Work (6\*)**

Treatment modalities, goal planning facility usage, counseling, helping skills, principles of human development, etiology, normalization, detection. Institutionalization effects, empathy training, evaluation, problem solving transactional skills, theoretical systems, ethical issues. Psychoactive drugs, rehabilitative and rehabilitative programs, community services.

\*Credit available only to those who complete successfully a certified institution-based training program and credit is only applicable toward the Associate in Science degree in the Liberal Arts Division's Mental Health and Retardation Emphasis. Credit cannot be used to fulfill other social science requirements.

**6 Class Hours**

**SOS 155 Media and Society (3)**

An in-depth examination and analysis of the impacts and effects of the mass media upon society and the converse societal influences upon the media. Includes such issues as media concentration, portrayal of violence, stereotyping, the public's right to know, among others.

**Prerequisite: COM 100 or SOC 110**

**SOS 290 Social Science Field Experience (3)**

Each student spends a minimum of 90 hours working in the community. Periodic meetings, outside reading, and written reports are required. During the meetings, agency functions and goals will be discussed and analyzed.

**1 Class Hour; Prerequisite: 6 Credit Hours in psychology or sociology plus completion of a concurrent enrollment in 3 additional credit hours in either of these areas. For Mental Health students.**

**SPA 101, 102 Beginning Spanish (4, 4)**

This is the first half of a comprehension-based foundation course. Special emphasis is placed on the development of listening comprehension. Reading, writing and speaking skills emerge through practice in and out of class.

**4 Class Hours; Prerequisite: SPA 101 Beginning Spanish for SPA 102**

**SPA 201 Intermediate Spanish I (3)**

First course in a cultural, conversational and literary approach to the Spanish language. Review and continuation of grammar and syntax will be emphasized through writing, reading and conversation on Spanish and Latin American literary works of recognized authors.

**3 Class Hours; Prerequisite: SPA 102 Beginning Spanish**

**SPA 202 Intermediate Spanish II (3)**

Second course of a cultural, conversational and literary approach to Spanish language. Students will have the opportunity to discuss and analyze a wide variety of topics, while reviewing and continuing to explore the grammar and syntax of the Spanish language.

**3 Class Hours; Prerequisite: SPA 201 Intermediate Spanish I**

**SPA 203 Spanish in Conversation (3)**

This conversational class will intensively emphasize oral practice in the classroom through a wide variety of topics.

**3 Class Hours; Prerequisite: SPA 202 Intermediate Spanish II or its equivalent**

**SPA 204 Spanish in Conversation and Composition through Literary Works (3)**

The Spanish language in conversation and basic composition practice through the reading of various literary works. Classroom discussion and conversation based on these texts.

**3 Class Hours; Prerequisite: SPA 203 Spanish in Conversation**

**SPK 106 English Speech Communication for Speakers of Other Languages (3)**

This course is designed for international students as a bridge between ESL 114 and SPK 110. There will be some practice in articulation, pronunciation, and vocabulary, but the emphasis of the course will be on introducing various public speaking skills and providing exercises that will help students feel comfortable using English to communicate a specific idea in front of a group.

**SPK 110 Effective Speaking (3)**

Speech communication through voice, words, and action. Voice production, diction, platform presence. Organization of ideas. Practice in presenting speeches of different types.

**3 Class Hours**

**SPK 203 Advanced Speaking (3)**

Designed so students can review what they have learned in SPK 102 Effective Speaking, learn advanced techniques for informative and persuasive speaking, learn techniques for special speaking occasions. Involvement in a debate as a means of perfecting research techniques, impromptu speaking skills and the processes of logical thinking and organizing.

**3 Class Hours; Prerequisite: SPK 102 Effective Speaking**

**SPK 299 Independent Study: Speech (1-3)**

An individual student project concerned with advanced work in a specific area of speech. Conducted under the directions of a faculty member, independent study is concerned with material beyond the scope and depth of the ordinary course.

**Prerequisite: 3 Semester hours of college level work in Speech**

**SQC 100/200 Orientation (0)**

Guest speakers discuss common problems quality assurance students encounter. Student contact with industry is established through field trips.

**1 Class Hour**

**SQC 111 Acceptance Sampling Techniques (3)**

A thorough study of acceptance sampling techniques for attributes and variables. Operating Characteristic curves, Lot-by-Lot acceptance plans based on LTPD, AOQL and AQL. Dodge-Romig, MIL-STD 105D, Sequential Probability Ratio Test (SPRT) Sequential Sampling, Continuous Sampling, MIL-STD 414.

**3 Class Hours**

**SQC 112 Metrology (3)**

The study of the science of measurement. This course will deal with the principles and practice of precision measurement. Topics to include fixed gages, micrometers, verniers, thread gaging, comparison measurement, optical measuring instruments, calibration and angle measurement.

**3 Class Hours; Prerequisite: MAT 125 Statistics I with Computers or MAT 139 Algebra**

**SQC 113 Statistical Process Control (3)**

A thorough study of Process Capability Analysis and Control Chart procedures. Capability Indices, Control charts for attributes, p, np, c, u, d control charts for variables x, R, S. Cusum charts. Distinctions made between process capability and process control.

**3 Class Hours; Prerequisite: MAT 125 Statistics I with Computers**

**SQC 220 Senior Practicum (3)**

This course is designed to allow students to integrate their theoretical knowledge with real world situations. Working in teams, students are assigned to case studies involving actual or fictitious data. The course emphasizes computer usage, classroom presentations, and written reports. ISO 9000 Standards and problem solving techniques including Pareto diagrams, process flowcharts, check sheets, brainstorming, cause-and-effect diagrams, multi-voting schemes are discussed.

**3 Class Hours; Prerequisites: ENG 150 Technical Writing, SQC 111 Acceptance Sampling Techniques, SQC 112 Metrology, SQC 113 Statistical Process Control, SQC 244 Reliability and Life Testing, MAT 224 Statistics II; Corequisite MAT 245 Design of Experiments**



**SQC 244 Reliability and Life Testing (3)**

Fundamentals of Probability, Probability Distribution, Discrete Distributions: Binomial, Hypergeometric, Poisson, Pascal, Continuous Distributions: Normal, Exponential, Gamma, Log-normal, Weibull, Introduction to Reliability, Failure Rate, MTBF, MTTF, Mean Life, Probability of Survival for series systems and parallel redundant systems, basics of life testing, based on preassigned number of failures, preassigned time, SPRT, maintainability and MTTR.

**3 Class Hours; Prerequisite:** MAT 125 Statistics I with Computers

**SQC 297 Cooperative Work Experience (1-3)**

Cooperative education in Quality Assurance may be available. On-the-job experience may be obtained in an industrial setting whose operations require process control, statistical analysis, problem solving skills, or other tools of Quality Assurance. To be eligible a student must maintain a cumulative grade point average of at least 2.5 with a minimum 3.0 in MAT and SQC courses, and have no "F" grades.

**Prerequisite:** Placement by advisor

**THR 101 Theater Appreciation (3)**

Art of the theater to increase understanding and appreciation of drama. A cultural approach considering the interrelationship of all aspects of production including plays, acting, directing, costume, make-up and lighting. Attendance at local productions. (Students taking this course may also be interested in LIT 230 American Drama, LIT 233 World Drama.)

**3 Class Hours**

**THR 109, 110 Practicum in Theater Design and Technology (3, 3)**

Stage design (both lighting and scenic) and construction techniques are studied first hand, as students participate in actual production of two plays each semester. Problems encountered during a production are analyzed. Individualized instruction is increased as students begin to focus on their particular areas of interest.

**3 Class Hours each**

**THR 111 Acting: External Style (3)**

Fundamental acting techniques. Development of individual skills and disciplines relative to external acting techniques. Use of face, voice and movement.

**3 Class Hours**

**THR 112 Acting: Internal Style (3)**

Intensive application of acting techniques through scene study and performance. Problems of character analysis, internal acting and style.

**3 Class Hours**

**THR 117 Creative Dramatics (3)**

Fundamentals of creative dramatics, its use in teaching, recreation and rehabilitation. Introduction to techniques used and practical application opportunities.

**3 Class Hours**

**THR 121 Make-up for TV and Film (1)**

Use of prosthetics and cosmetics. Techniques of executing age, character, and stylistic effects. Students to provide pertinent materials.

**2 Studio Hours**

**THR 140 Presentation for Radio/TV (3)**

Presentation as on-air personality. Development of visual and vocal techniques relating to presentation of news, interviews, commercials and announcements.

**3 Class Hours**

**THR 151 Theater Production I (3)**

Classroom and workshop study relative to production of plays, including historical and dramatic perspective. Script analysis, play selection, audience research, publicity, administration of a theater.

**3 Class Hours**

**THR 152 Theater Production II (3)**

Classroom and workshop for stage production. Special attention to stage management, operation of stage crews, house management. Coordination of visiting and touring theater companies regarding production and logistics.

**3 Class Hours; Prerequisite:** THR 151 Theater Production I

**THR 161 Playwriting (3)**

Scriptwriting for the theatre. Attention to style, editing, and suitability for performance.

**3 Lecture Hours; Prerequisite:** ENG 110 and any THR course

**THR 165 Dance for Actors I (1)**

Basic dance techniques, dance characterization, and movement relative to performance in musical theatre.

**2 Studio Hours**

**THR 175 Dance for Actors II (1)**

Intensive dance techniques, dance characterization, and movement relative to performance in musical theatre.

**2 Studio Hours**

**THR 190 Broome Community College Theater (1)**

Students who participate in the plays and performances of the BCC Theater Co. receive one credit per semester. (May be repeated 3 times for credit.)

**THR 201, 202 Children's Theater (3, 3)**

Touring children's theater company during academic year. Performances at area elementary schools for classtime and assembly programs. Visiting with students pre/post production. Design and construction of costumes, sets, and properties. Analysis of children-oriented plays, development of scripts, rehearsal and performance.

**3 Class Hours each**

**THR 203 Summer Touring Children's Theater Company (3)**

Touring children's theater company during summer. Performances at area recreation centers, parks, camps and playgrounds. Visiting with children pre/post production. Design and construction costumes, sets, and properties. Analysis of children-oriented plays, development of scripts, rehearsal and performance.

**3 Class Hours**

**THR 218 Role Study and Characterization (3)**

The varied creative processes by which an actor might develop a characterization are studied in theory and explored in practice with emphasis upon screenwork.

**3 Class Hours**

**THR 219 Periods and Styles of Acting (3)**

Procedures and techniques necessary for acting in theatrical and period productions such as Elizabethan, Italian Renaissance, Restoration, Absurdist and innovative styles.

**3 Class Hours**

**THR 221 History of The Theatre (3)**

History of stage production with emphasis on theatre as a performing art. Chronological examination of theatre activity as a mirror of social and cultural experience from primitive times through the Renaissance.

**3 Class Hours**

**THR 222 History of the Theatre (3)**

History of stage production from the 18th Century to the present, with attention to the contribution of dramatic literature and the fine arts to stage development.

**3 Class Hours**

**THR 231 Stage Direction I (3)**

Examination of the perspective of the director in relation to himself, the play, the actors, designers, playwright, and the collaborative evolution of the production. Development of directing methods and techniques in terms of casting, pictorial emphasis and harmony, rehearsal and production procedures. Preparation of prompt book and direction scenes. Proscenium and non-proscenium techniques.

**3 Class Hours**

**THR 232 Stage Direction II (3)**

Detailed analysis of directing in relation to theatrical styles and periods. Examination of the techniques of such directors as Meyerhold, Antoine, Guthrie and Kazan. Direction of pertinent scenes.

**3 Class Hours**

**THR 266 Acting for TV, Film and Commercials (3)**

Proficiency in performing before the camera. Character analysis, quick study, re-takes, voice-overs, studio projection, facial nuances, and subtlety of mannerism.

**2 Class Hours, 2 Studio Hours**

**THR 276 Rehearsal and Performance for Television (3)**

Casting, rehearsing, and acting in made-for-television drama and comedy scripts.

**3 Class Hours**

**THR 299 Independent Study: Theater (1-3)**

An individual student project concerned with advanced work in a specific area of theater. Conducted under the direction of a faculty member, independent study is concerned with material beyond the scope and depth of the ordinary course.

**Prerequisite:** 3 Semester hours of college level work in theater

**TTM 102 Introduction to Tourism and Travel (3)**

This course will introduce the student to the broad nature of travel and tourism, including present status and future trends in the industry. Study of world-wide destinations including culture, attractions, language, currency and flag carriers. Course will also focus on local and regional tourism.

**3 Class Hours**

**TTM 117 Tourism Suppliers and Wholesalers (3)**

Comprehensive study of the wide variety of business entities that supply various services in the travel tourism field. The course will focus on suppliers such as domestic/international airlines, railways/AMTRAK, car rental agencies, motor coach lines, tour organizers, cruise lines, and others in the hospitality field. Representatives from businesses in these areas will be used as guest speakers and will focus on employment opportunities. Writing Emphasis Course.

**3 Class Hours**

**TTM 217 Airline Ticketing and Documentation (3)**

This course will acquaint the student with the principles of documentation, ticketing, and tariffs associated with the travel industry. Students will also work hands-on, with travel-related reference materials.

**3 Class Hours; Prerequisite:** TTM 102



**TTM 260 Destination/Convention  
Marketing and  
Management (3)**

Organizing and marketing group tourism services. Activities of convention and visitor bureaus in marketing and planning meetings, conventions, and other activities directed at groups. Functions including convention sales, tourism development, visitor information services, and general promotion will be studied, with special emphasis on local/regional destinations and activities.

**3 Class Hours; Prerequisite: TTM 102**

**TTM 291 Computerized Reservation  
Systems (3)**

Introduces the student to computerized reservation systems. Included will be instruction on: building the passenger name record, flight availability, pricing, and car/hotel reservations. Students will acquire all of the skills needed to do complete travel planning for the travel consumer. Includes extensive use of travel-related reference materials, and computer software simulations of the SABRE system.

**3 Class Hours; Prerequisites: TTM 102 and TTM 217**

**TTM 298 Travel and Tourism  
Externship (1-3)**

Career-related employment in areas such as travel agencies, hotels, car rental companies, airlines, tour operators, restaurants, and visitor and convention bureaus. BCC is also a member of the Walt Disney World internship program.

**1-3 Class Hours; Prerequisite: Senior status, in final semester or by permission of instructor**



# PROGRAM-IDENTIFYING NUMBERS

State regulations require a listing of all curriculums, together with the degrees they lead to and their HEGIS code numbers. HEGIS stands for Higher Education General Information Survey, and the HEGIS numbers for each curriculum are official federal and state designations. Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain aid awards.

HEGIS	Degree	Curriculum	HEGIS	Degree	Curriculum
5001	CERT	Business Skills	5214	AAS	Medical Assistant
5002	AAS	BUS-Accounting	5219	AAS	Physical Therapist Assistant
0506	AS	BUS-Business Administration	5305	AAS	Chemical Engineering Technology
5004	AAS	BUS-Marketing Management & Sales	5309	AAS	Civil Engineering Technology
5005	CERT	Office Technologies	5310	AAS	Electrical Engineering Technology
5005	AAS	BUS-Secretarial Science-Administrative Assistant	5312	CERT	Industrial Technology - Quality Assurance
5005	AAS	BUS-Secretarial Science-Executive	5312	AAS	Industrial Technology - Quality Assurance
5005	AAS	Records Information Management	5315	AAS	Mechanical Engineering Technology
0508	AAS	Hotel and Restaurant Management	5404	CERT	Dietary Manager
5008	AS	Communication and Media Arts	5503	CERT	Early Childhood
5012	CERT	Interior Design	5503	AAS	Early Childhood
5099	CERT	Paralegal Assistant	5505	CERT	Criminal Justice
5099	AAS	Paralegal	5505	AAS	Criminal Justice - Police
5099	AAS	Travel and Tourism	5507	CERT	Fire Protection Technology
5101	AS	Computer Science	5507	AAS	Fire Protection Technology
5104	AAS	Computer Technology	0901	AS	Engineering Science
5203	AAS	Dental Hygiene	4901	CERT	Liberal Arts and Related Careers
5205	AAS	Medical Laboratory Technology	4901	AS	Liberal Arts and Related Careers
5207	AAS	Radiologic Technology	4901	AA	Liberal Arts and Related Careers
5208	AAS	Nursing	4901	AS	Individual Studies
5213	AAS	Health Information Technology	4901	AAS	Individual Studies

NOTE — "CERT" means certificate, not a degree.

## BCC Refund Regulations

Federal regulations have established certain changes in the College's refund policy. The amount of refund a student receives when withdrawing from courses depends on a variety of factors: (1) whether the refund is partial or a complete withdrawal from all classes; (2) day of the semester the Registrar's office received notification of the withdrawal; and, (3) if federal funding is received as either a new or returning student. If you receive any funding from Federal Title IV sources (PELL, SEOG, College Work Study, or Perkins, Stafford, Unsubsidized Stafford or Parent Plus Loans), the following refund schedule is mandated by federal regulations.

### REFUND SCHEDULE

Day of Semester	PARTIAL WITHDRAWAL	COMPLETE WITHDRAWAL		
	All Students A	Non-Title IV B	Returning Title IV C	First time Title IV D
Prior to day 1	100%	100%	100%	100%
1	100%	100%	100%	100%
2-5	90%	90%	90%	90%
6-8	50%	50%	90%	90%
9-10	50%	50%	50%	80%
11-15	25%	25%	50%	80%
16-19	25%	25%	50%	70%
20	25%	25%	25%	70%
21-30	0%	0%	25%	60%
31-35	0%	0%	25%	50%
36-38	0%	0%	25%	40%
39-45	0%	0%	0%	40%
46-75 or end of semester	0%	0%	0%	0%

### TO FIND THE REFUND PERCENTAGE ABOVE:

1. Determine the "day" of the semester you have completed a Drop/Add at the Registrar's Office (Wales 206). The schedule is based on the overall college calendar for the semester and only includes days of instruction on Monday through Friday. The meeting days or time of any specific class/

course does not influence the refund determination. Please note that a 100% refund is granted only through the first day of the semester.

2. If you are still registered in a class, the refund is partial. Use column **A, Partial Withdrawal**, to determine refund.
3. If you are not registered in any classes you are a **Complete Withdrawal**, and you can determine the refund schedule by using column **B, C or D** as follows:  
If you receive **no federal funding**, use column **B**  
If you are a **Title IV returning student**, use column **C**  
If you are a **first time student at Broome Community College** and also are **receiving Title IV funds**, use column **D**

### ADDITIONAL INFORMATION:

**Non-Title IV** includes students attending BCC who have paid their entire tuition bill with personal funds, TAP, BCC Foundation Scholarships, Outside Scholarships, and/or by Third Party Billing approval. This refund schedule will also be used for students who may have federal financial aid pending which has not been approved before the date of withdrawal.

**Title IV** student refunds are mandated by Federal Regulations from the US Department of Education. When a student receiving Title IV funding completely withdraws from the College, a prorated amount based on the date of withdrawal, **must be returned to these federal program fund sources**. Title IV funding covers grant sources such as PELL, SEOG, College Work Study Student, or loans from Perkins, Stafford or Parent Plus programs.

**Returning Title IV** students are those who have attended BCC prior to the current semester. No full or partial refunds will be granted until after day 38 of the semester to allow for federally required processing. This refund will be reduced by a federally approved Title IV Administrative Fee of 5% of tuition and fees or \$100, whichever is less.

**First time Title IV** means any student who has not attended BCC prior to the current semester. No full or partial refunds will be granted until after day 45 of the semester to allow for federally required processing. This refund will be reduced by a federally approved Title IV Administrative Fee of 5% of tuition and fees or \$100, whichever is less.

Exceptions to the refund schedule are Summer, Weekender, and short course classes which will have a prorated refund schedule (by % of time) if federal funding is involved. For Short Courses or Summer refunds, 90% will be refunded for a partial withdrawal through the first 5 days of a summer term or short course and 0% thereafter. For Weekender partial withdrawals, 90% will be refunded through Friday following the first weekend and 0% thereafter.











# PART 4

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## STATE UNIVERSITY OF NEW YORK (SUNY)

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### THOMAS A. BARTLETT, Chancellor

Broome Community College is one of the 64 colleges that comprises the State University of New York (SUNY), which was established by the State Legislature in 1948. The 64 units include 30 locally-sponsored two-year community colleges like Broome.

State University's 64 geographically dispersed campuses bring educational opportunity within commuting distance of virtually all New York citizens and comprise the nation's largest, centrally managed system of public higher education.

When founded in 1948, the University consolidated 29 State-operated, but unaffiliated, institutions. In response to need, the University has grown to a point where its impact is felt educationally, culturally and economically the length and breadth of the State.

More than 400,000 students are pursuing traditional study in classrooms or are working at home, at their own pace, through such innovative institutions as Empire State College, whose students follow individualized and often non-traditional paths to a degree. Of the total enrollment, approximately 36 percent of the students are 25 years or older, reflecting State University's services to specific constituencies, such as refresher courses for the professional community, continuing educational opportunities for returning service personnel, and personal enrichment for more mature persons.

State University's research contributions are helping to solve some of modern society's most urgent problems. It was a State University scientist who first warned the world of potentially harmful mercury deposits in canned fish, and another who made the connection between automobiles and industrial exhaust combining to cause changes in weather patterns. Other University researchers continue important studies in such wide-ranging areas as immunology, marine biology, sickle-cell anemia, and organ transplantation.

More than 1,000 Public Service activities are currently being pursued on State University campuses. Examples of these efforts include special training courses for local government personnel, State civil service personnel, and the unemployed; participation by campus personnel in joint community planning or project work, and campus-community arrangement for community use of campus facilities.

A distinguished faculty includes nationally and internationally recognized figures in all the major disciplines. Their efforts are recognized each year in the form of such prestigious awards as Fulbright-Hays, Guggenheim and Danforth Fellowships.

The University offers a wide diversity of what are considered the more conventional career fields, such as business, engineering, medicine, teaching, literature, dairy farming, medical technology, accounting, social work, forestry and automotive technology. Additionally, its responsiveness to progress in all areas of learning and to tomorrow's developing societal needs has resulted in concentrations which include the environment, urban studies, computer science, immunology, preservation of national resources, and microbiology.

Overall, at its EOC's, two-year colleges, four-year campuses and university and medical centers, the University offers more than 4,000 academic programs. Degree opportunities range from two-year associate programs to doctoral studies offered at 12 senior campuses.

The 30 two-year community colleges operating under the program of State University play a unique role in the expansion of educational opportunity. They provide local industry with trained technicians in a wide variety of occupational curriculums, and offer transfer options to students who wish to go on and earn advanced degrees.

The University passed a major milestone in 1985 when it graduated its one-millionth alumnus. The majority of SUNY graduates pursue careers in communities across the State.

State University is governed by a Board of Trustees, appointed by the Governor, which directly determines the policies to be followed by the 34 State-supported campuses. Community colleges have their own local boards of trustees whose relationship to the SUNY Board is defined by law. The State contributes one-third to 40 percent of their operating costs and one-half of their capital costs.

The State University motto is: "To Learn — To Search — To Serve."



# COLLEGE OF THE STATE UNIVERSITY OF NEW YORK

## COMMUNITY COLLEGES

(Locally-sponsored, two-year colleges under the program of State University)

Adirondack Community College at Glens Falls  
Broome Community College at Binghamton  
Cayuga County Community College at Auburn  
Clinton Community College at Plattsburgh  
Columbia-Greene Community College at Hudson  
Community College of the Finger Lakes at Canandaigua  
Corning Community College at Corning  
Dutchess Community College at Poughkeepsie  
Erie Community College at Williamsville, Buffalo,  
and Orchard Park  
Fashion Institute of Technology of New York City  
Fulton-Montgomery Community College at Johnstown  
Genesee Community College at Batavia  
Herkimer County Community College at Herkimer  
Hudson Valley Community College at Troy  
Jamestown Community College at Jamestown

Jefferson Community College at Watertown  
Mohawk Valley Community College at Utica  
Monroe Community College at Rochester  
Nassau Community College at Garden City  
Niagara County Community College at Sanborn  
North Country Community College at Saranac Lake  
Onondaga Community College at Syracuse  
Orange County Community College at Middletown  
Rockland Community College at Suffern  
Schenectady County Community College at Schenectady  
Suffolk County Community College at Selden, Riverhead,  
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Ulster County Community College at Stone Bridge  
Westchester Community College at Valhalla

## STATE-OPERATED COLLEGES

### UNIVERSITY CENTERS

State University of New York at Albany  
State University of New York at Binghamton  
State University of New York at Buffalo  
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### COLLEGES OF ARTS AND SCIENCES

State University College at Brockport  
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State University College at Oswego  
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### COLLEGES AND CENTERS FOR THE HEALTH SCIENCES

Health Sciences Center at Brooklyn  
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(Health Sciences Center at Buffalo) \*  
(Health Sciences Center at Stony Brook) \*

### COLLEGES OF TECHNOLOGY

State University of New York College of Technology at Alfred  
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State University of New York College of Environmental Science and Forestry at Syracuse  
State University of New York Maritime College at Fort Schuyler

\* The Health Sciences Centers at Buffalo and Stony Brook are operated under the administration of their respective University Centers.

\*\* This is an upper-division institution authorized to offer baccalaureate and master's degree programs.

### STATUTORY COLLEGES

New York State College of Agriculture and Life Sciences at Cornell University  
New York State College of Ceramics at Alfred University  
New York State College of Human Ecology at Cornell University  
New York State College School of Industrial and Labor Relations at Cornell University  
New York State College of Veterinary Medicine at Cornell University

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## **APPROVED CALENDAR**

### **1996 - 1997 ACADEMIC YEAR**

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#### **Fall**

Registration .....	August 19-23
Classes Start .....	August 26
Labor Day (College Closed) .....	September 2
Mid-Semester Break .....	October 14-15
Thanksgiving Break .....	November 27-29
Last Day of Classes .....	December 16
Reading Day .....	December 17
Final Exams .....	December 18-20

#### **Spring**

Registration .....	January 13-17
Martin Luther King Day (College Closed) .....	January 20
Classes Start .....	January 21
Mid-Semester Break .....	March 5-7
Spring Break .....	March 31-April 4
Convocation Day .....	April 15
Last Day of Classes .....	May 16
Final Exams .....	May 19-21
Graduation .....	May 23

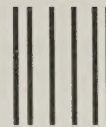
#### **Note:**

Memorial Day .....	May 26
Summer School Begins .....	May 27

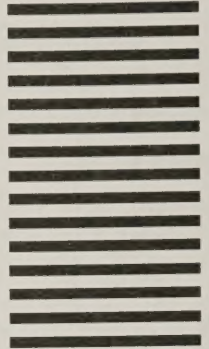








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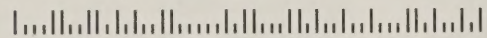


**BUSINESS REPLY MAIL**

FIRST CLASS PERMIT NO. 1147 BINGHAMTON, NY

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**BROOME COMMUNITY COLLEGE**  
ADMISSIONS OFFICE  
P.O. BOX 1017  
BINGHAMTON, NY 13902-7983



**ENCLOSE THIS CARD IN  
AN ENVELOPE AND MAIL TO:**

Broome Community College  
Health & Wellness Center  
P.O. Box 1017  
Binghamton, NY 13902-7983





Broome Community College  
Health & Wellness Resource Center  
PO Box 1017  
Binghamton, NY 13902

### Immunization Record

According to NYS Public Health Law all college students born on or after January 1, 1957 who register for 6.0 or more credits must provide documentation of immunization against measles, mumps and rubella.

If you are attending high school or college at the present time, please have the Health Office complete this form and bring it to the BCC Health & Wellness Resource Center - Wales 103 - (or mail it to the above address) on or before the first day of classes.

Name \_\_\_\_\_ SS# \_\_\_\_\_  
Address \_\_\_\_\_  
Date of Birth \_\_\_\_\_ Telephone \_\_\_\_\_

#### Immunizations (Dates must be listed)

Disease	Vaccine Date	Disease History (onset date)	Serology Date/Results
Measles			
Rubella			
Mumps			
or combined as MMR			

I certify that the above is complete and accurate to the best of my knowledge.

School Official's Name \_\_\_\_\_  
School Official's Signature \_\_\_\_\_  
High School / College \_\_\_\_\_  
Address \_\_\_\_\_ Telephone \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

### Please identify your curriculum interests:

#### BUSINESS

- ☐ Accounting
- ☐ Accounting/Banking Emphasis
- ☐ Business Administration
- ☐ Bus. Admin./International Emphasis
- ☐ Bus. Admin./Health Care Administration Emph.
- ☐ Entrepreneurship
- ☐ Hotel/Restaurant Management
- ☐ Management
- ☐ Marketing
- ☐ Travel & Tourism

#### COMPUTER STUDIES

- ☐ Computer Information Systems
- ☐ Computer Science
- ☐ Computer Technology

#### ENGINEERING (Transfer)

- ☐ Engineering Science

#### ENGINEERING TECHNOLOGIES

- ☐ Chemical Engineering Technology
- ☐ Civil Engineering Technology
- ☐ Electrical Engineering Technology
- ☐ Industrial Technology
- ☐ Mechanical Engineering Technology

#### HEALTH SCIENCES

- ☐ Dental Hygiene
- ☐ Health Information Technology
- ☐ Medical Assistant
- ☐ Medical Lab Technology
- ☐ Nursing
- ☐ Physical Therapist Assistant
- ☐ Radiologic Technology (X-Ray)

#### LIBERAL ARTS (Transfer)

- ☐ Liberal Arts (A.A.) Majors: Humanities, Social Sciences, Mathematics; Professions: Law, Teaching, Public Service
- ☐ Liberal Arts (A.S.) Majors: Biology, Chemistry, Physics; Professions: Medicine, Dentistry, Pharmacy, Physical Therapy
- ☐ Liberal Arts/Communication and Media Art
- ☐ Liberal Arts/Criminal Justice
- ☐ Liberal Arts/Early Childhood
- ☐ Liberal Arts/Pre-Forestry
- ☐ Liberal Arts/Mental Health

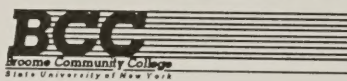
#### OFFICE TECHNOLOGIES

- ☐ Executive Secretarial
- ☐ Office Technologies Certificate
- ☐ Records/Information Management
- ☐ Word/Information Processing

#### SPECIAL CAREER PROGRAMS

- ☐ Criminal Justice
- ☐ Early Childhood Program
- ☐ Dietary Manager (Certificate)
- ☐ Fire Protection Technology
- ☐ Individual Studies
- ☐ Individual Studies/Music Emphasis
- ☐ Interior Design (Certificate)
- ☐ Paralegal

Date information sent: \_\_\_\_\_





# MAP OF THE CAMPUS

## A - ALMS HOUSE

Art Studios  
Music Studios

## AT - APPLIED TECHNOLOGY BUILDING

Computer Graphics (CAD)  
Computer Studies Office  
Conference Center  
Electrical Engineering Technology Office  
Engineering Science and Physics Office  
Math Office  
Applied Sciences Divisional Offices

## B - BUSINESS BUILDING

Business and Office Technologies  
Divisional and Departmental Offices  
Computer Center  
Health Information Technology Office  
Medical Assistant Office  
Medical Record Technology Office  
Radiologic Technology Office

## BC - B.C. CENTER (Child care)

## CS - CAMPUS SERVICES BUILDING

Shipping and Receiving  
Copy Center  
Purchasing

## D - DECKER HEALTH SCIENCE CENTER

(Opening in 1996)

## F - 901 FRONT STREET

Biological Sciences  
Nursing

## L - CECIL C. TYRRELL LEARNING RESOURCES CENTER

Affirmative Action Office  
Audio- Visual Services  
Disabled Student Services  
Learning Assistance Center  
Library  
Publications Center  
Security Office  
Teaching Resource Center

## M - MECHANICAL BUILDING

Civil Engineering Technology Office  
Mechanical Engineering Technology Office

## S - SCIENCE BUILDING

Chemical Engineering Technology Office  
Dental Hygiene Clinic  
Dental Hygiene Office

## SA - STUDENT AFFAIRS BUILDING

Financial Aid  
Finance Office  
Medical Laboratory Technology Office  
Physical Therapist Assistant Office  
Student Accounts  
Student Activities

## SC - STUDENT CENTER

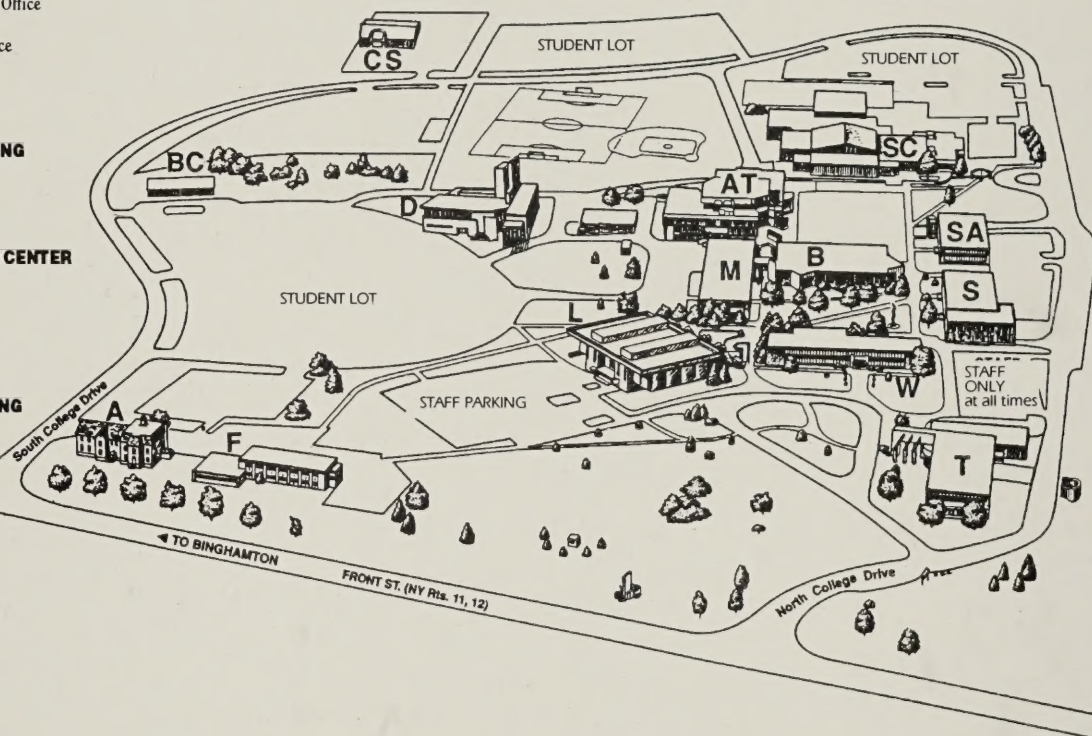
Athletics Office  
Bookstore & Campus Shop  
Cafeteria  
Educational Opportunity Program  
Faculty/Student Association  
Fitness Center  
Gymnasiums  
Human Resources (Personnel)  
Little Theatre  
Physical Education

## T - TITCHENER HALL

Liberal Arts & Related Careers

## W - WALES BUILDING

Administrative Offices  
Admissions Office  
Advisement Center  
(Academic & Careers)  
Alumni Office  
BCC Foundation  
Center for Community Education  
Counseling and Student  
Development Center  
Health & Wellness Resource Center  
Placement Office  
Purchasing  
Registrar's Office  
STRIVE Program Office  
Student & Community Affairs  
Veterans' Office



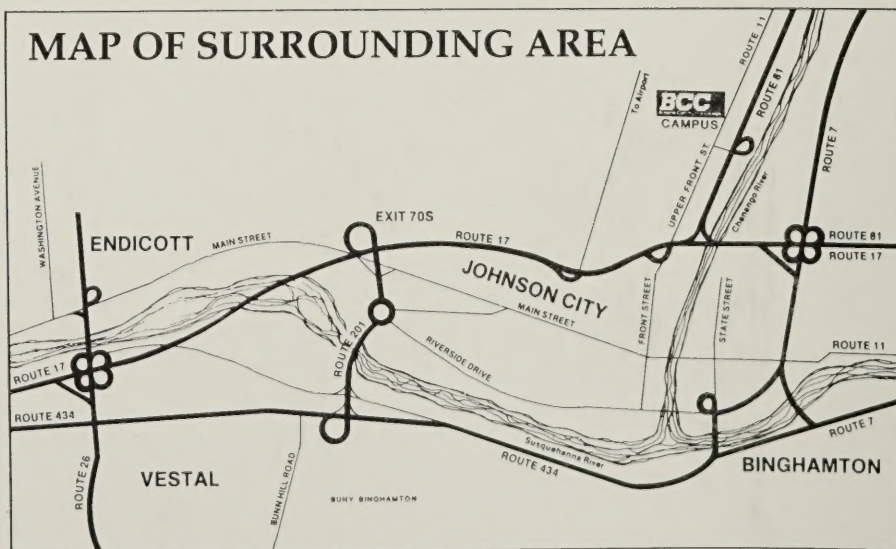
## Parking

All vehicles must be registered with the Campus Security Office. Students are allowed to park only in student lots until 5 p.m. after which an open parking policy exists. A parking map is available in the Campus Security Office. However, certain general rules are always in effect:

- No parking on grass, roadways, or lot perimeters
- No parking in handicapped zones without a permit (issued by Campus Security)
- Lot D is reserved for staff at all times

**Violators of the regulations will be ticketed and fined.**

## MAP OF SURROUNDING AREA







## **Broome Community College**

P.O. Box 1017

Binghamton, NY 13902

***Please Note:***

***This is the only copy of the  
General Catalog that will be  
provided to you. Please keep it  
for use during your time at BCC.***